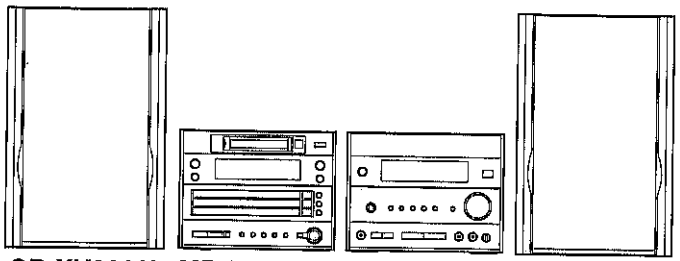
SHARP SERVICE MANUAL

No. S3716MDXV300H



CP-XV300H MD-DX300H MD-SA300H CP-XV300H

MD-DX300H
MD-SA300H
CP-XV300H
CP-XV300H(BR)

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Mini Disc COMPACT disc DIGITAL AUDIO Active Servo Technology

MD-DX300H and MD-SA300H and CP-XV300H constitute MD-XV300H.

MD-DX300H and MD-SA300H and CP-XV300H(BR) constitute MD-XV300H(BR).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used.

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MD-DX300H/MD-SA300H,CP-XV300H

SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

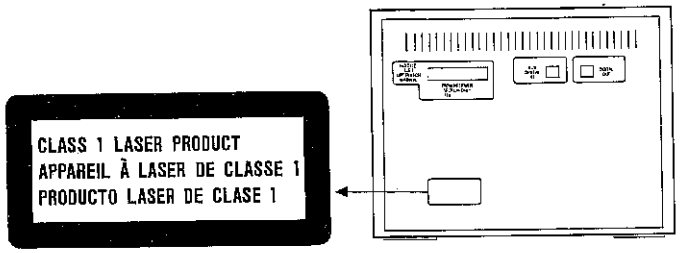
1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITDOUT A COMPACT DISC IN POSITION AND THE PICK-UP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICK-UP LENS.

2-THE LASER POWER OUTPUT OF THE PICK-UP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRE-SET BEFORE SHIPMENT.

DO NOT ATTEMPT TO RE-ADJUST THE LASER PICK-UP UNIT DURING REPLACEMENT OR SERVICING.

3-UNDER NO CIRCUMSTANCES STARE INTO THE PICK-UP LENS AT ANY TIME.

4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1

SAFETY PRECAUTION FOR SERVICE MANUAL

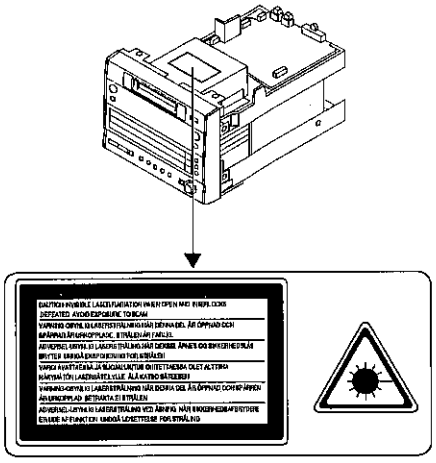
WARNINGS

The AEL (ACCESSIBLE EMMISSION LEVEL) of the laser power output is less than class 1 but the laser component is capable of emitting radiation exceeding the limit for class 1. Therefore it is important that the following precautions are observer during servicing to protect your eyes against exposure to the laser beam.

1) When the unit case cover is removed and LOADING SW (SW 1956) is turned on and then PLAY SW (SW 1954 mechanism PWB) is turned on in a few second.
The laser will light for several second to detect a disk.
2) The laser power output of the pickup unit and replacement service parts are all factory pre-set before shipment.
Do not attempt to re-adjust the laser pick-up unit during replacement or servicing.
3) Under no circumstances stare into the pickup lens at any time.
4) If laser optical unit becomes faulty, replace the complete laser optical unit.
5) CAUTION-USE of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties

- **Material:** GaAlAs
- **Wavelength:** 785nm
- **Pulse time:** Read mode: 0.8 mW Continuous
  Write mode: max 10 mW 0.5
  min cycle 1.5 S
  Repetition

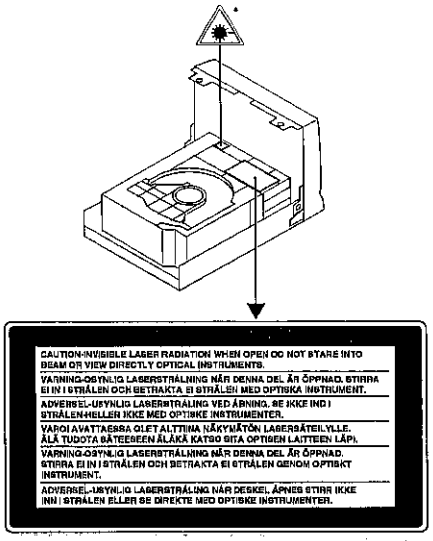


VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING-OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

Laser Diode Properties

- **Material:** GaAlAs
- **Wavelength:** 780nm
- **Emisson Duration:** : Continuous
  Laser Output: max.0.6 mW



VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING-OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

VARO ! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING! Osynlig laserstralning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Precaution to be taken when replacing and servicing the laser pickup.
The following precautions must be observed during servicing to protect your eyesvagainst exposure to the laser.

Warning of possible eye damage when repairing:
If the AC power plug is connected when the inner cover of the unit is removed, the laser will light up during focus access (about 1 second) (Fig. 3-1).
During this operation, the laser will leak from the opening between the magnetic head and cartridge holder (Fig. 3-2).
In order to protect your eyes, you must not look at the laser during repair.
Before repairing, be sure to disconnect the AC power plug.

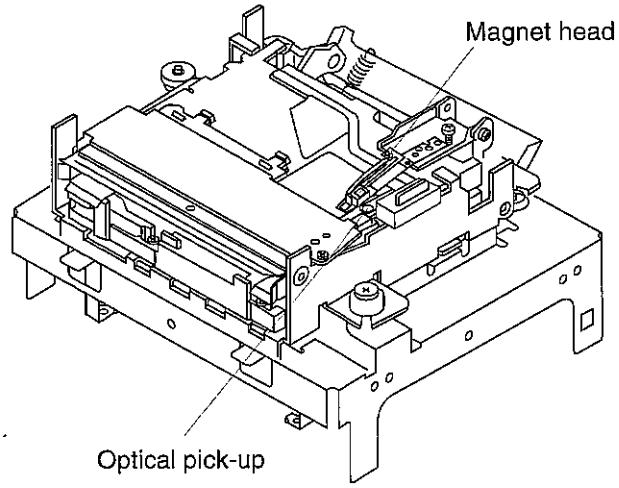


Figure 3-1

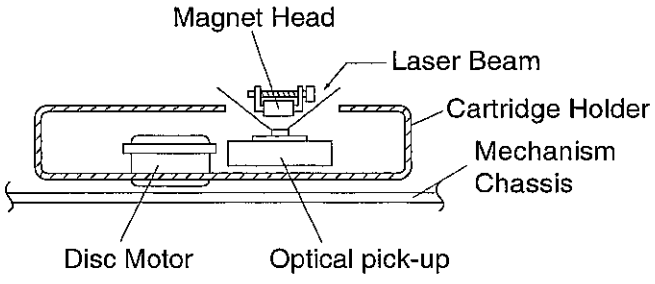


Figure 3-2

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

(General)

Type: MD/CD Component system
Power source: AC 230 V, 50 Hz
Power consumption: 200 W

■ MD/CD Unit (MD-DX300H)

(General)

Input terminals: AUX digital (optical/digital)
Output terminals: Digital (optical/digital)
Other terminal: System connection socket (for receiver)
Dimensions: Width; 200 mm (7-7/8")
Height; 157 mm (6-3/16")
Depth; 299 mm (11-13/16")
Weight: 4.0 kg (8.8 lbs.)

(Mini Disc recorder section)

Type: Mini Disc rcorder
Signal readout: Non-contact, 3-beam semi-conductor laser pick-up
Audio channels: Stereo 2 channels/monaural (long-play mode) 1 channel
Frequecy response: 20-20,000 Hz
Rotation speed: 400 - 900 rpm CLV, Approx.
Quantization: 16-bit linear
Filter: 8-times oversampling digital filter
Error crrection: ACIRC (Advanced Cross Interleave Reed-Solomon Code)
Coding: ATRAC (Adaptive Transformed Acoustic Coding)
Recording method: Magnetic modulation overwrite method
D/A converter: 1-bit
Sampling frequency: 44.1 kHz
Wow and flutter: Unmeasurable (less than 0.001% W. peak)
Dynamic range: 90 dB (1 kHz)
T. H. at 1 kHz: 0.1%

(Compact disc player)

Type: 3 disc multi-play compact disc player
Signal readout: Non-contact, 3-bean semi-conductor laser pickup
Rotational speed: 200 - 500 rpm CLV, Approx.
Error correction: CIRC (Cross Interleave Reed-Solomon Code)
Quantization: 16-bit linear
D/A converter: 1-bit
Filter: 8-times oversampling digital filter
Frequency response: 20 - 20,00 Hz
Dynamic range: 90 dB (1kHz)
Wow and fulutter: Unmeasurable (less than 0.001% W. paek)

■ Receiver (MD-SA300H)

(General)

Input terminals: AUX 1 (analogue); 600 mV/25 kohms
AUX 2 (analogue); 500 mV/28 kohms
MD► MD edit (common with AUX1); 530 mV/25 kohms
Stereo microphone; 600 ohms
Output terminals: Headphones; 16 - 50 ohms (recommended; 32 ohms)
Speaker; 8 ohms
Line out (analogue); 2.0 V /1 kohm
Other terminals: System connection socket (for MD/CD combination) x 1
(for Cassette deck) x 1
Dimensions: Width; 200 mm (7-7/8")
Height; 157 mm (6-3/16")
Depth; 336 mm (13-1/4")
Weight: 5.6 kg (12.3lbs.)

(Amplifier section)

Output power: RMS; 100 W (50 W + 50 W) (DIN 45 324)

(Tuner Section)

Frequency range: FM; 87.5 - 108 MHz
AM; 522 - 1,620 kHz

■ Speaker section (CP-XV300H)

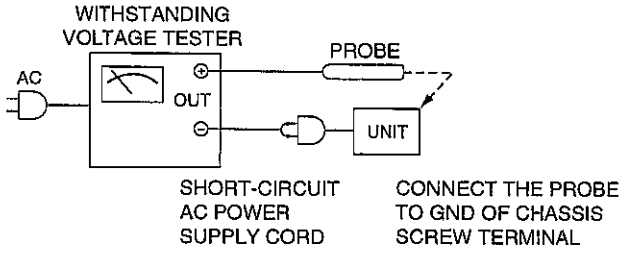
Type: 2-way 130 mm (5") woofer and 25 mm (1") dome tweeter type
Maxmum input power: 100 W
Rated input power: 50 W
Impedance: 8 ohms
Dimensions: Width; 200 mm (7-7/8")
Height; 312 mm (12-5/16")
Depth; 298 mm (11-3/4")
Weight: 5.6 kg (12.35 lbs.)/each

Specifications for this model are subject to change without prior notice.

IMPORTANT SERVICE NOTES (FOR UK ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.
Setting of Withstanding Voltage Tester and set.

Set name	Set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	
OK: The "GOOD" lamp lights. NG: The "NG" lamp lights and the buzzor sounds.	

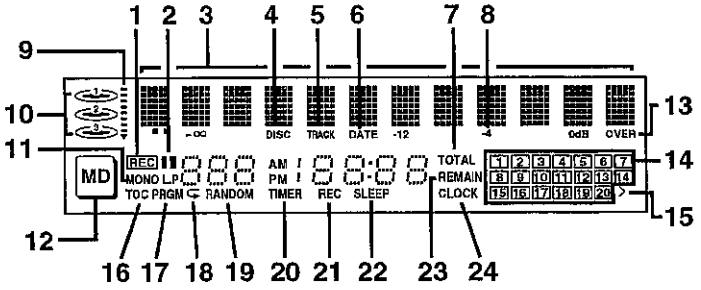


NAMES OF PARTS

■ MD/CD combination (MD-DX300H)

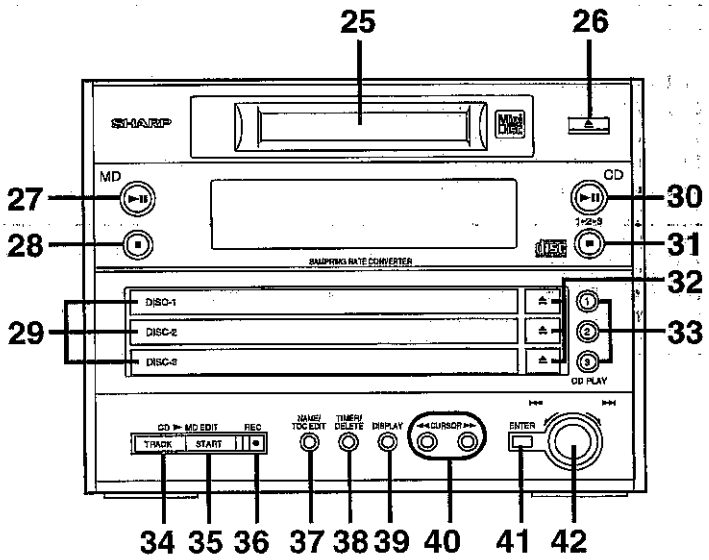
● Display window

1. MD Record Indicator: REC
2. MD Pause Indocator: ❚❚
3. Level Meter/Character Information Display
4. Disc Name Indicator
5. Track Name Indicator
6. Date Indicator
7. Total Time Indicator
8. Recording Level Indicator
9. CD Continuous Play Indicator
10. CD Disc Number Indicators
11. MONO (monaural long play) Indicator
12. MD Indicator
13. Recording Level Too High Indicator
14. Music Schedule/Preset Number Indicators
15. More Tracks Indicator
16. MD TOC Indicator
17. Programme Indicator
18. Repeat Indicator: ⮌
19. Random Play Indicator
20. Timer Indicator
21. Timer Record Indicator
22. Sleep Indicator
23. Remaining Time Indicator
24. Clock Indicator



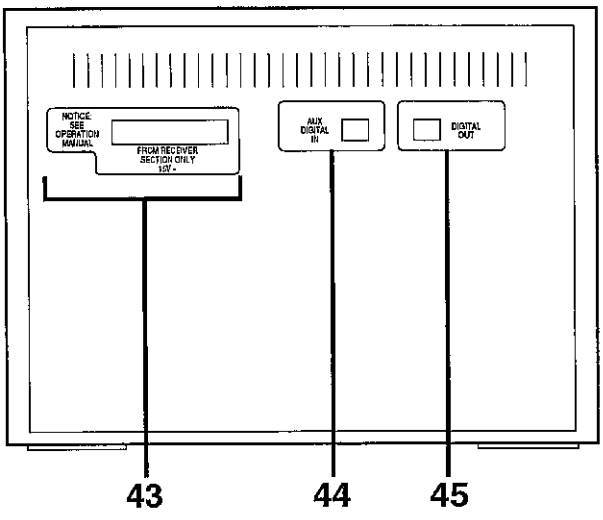
● Front panel

25. MD Compartment
26. MD Eject Button: ▲
27. MD Play/Pause Button: ►❚❚
28. MD Stop Button: ■
29. CD Disc Trays
30. CD Play/Pause Button: ►❚❚
31. CD Stop Button: ■
32. CD Open/Close Buttons: ▲
33. CD Play Button
34. CD Track Select Button
35. CD Edit Button
36. MD Record Button: ●
37. Name TOC-Edit Button
38. Timer/Delete Button
39. Display Button
40. Cursor Buttons: ◄◄ / ►►
41. Enter Button
42. Jog Dial



● Rear panel

43. From Receiver Section Socket
44. Digital Input Socket
45. Digital Output Socket

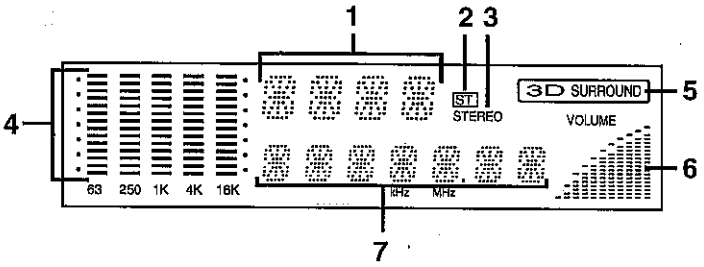


MD-DX300H/MD-SA300H,CP-XV300H

■ Reciever (MD-SA300H)

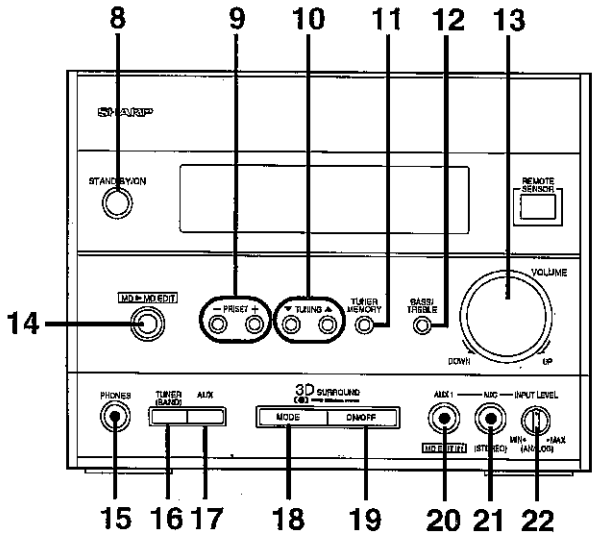
● Display window

1. Function Indicator
2. FM Stereo Indicator: ST
3. FM Stereo Mode Indicator
4. Spectrum Analyzer
5. 3D Surround Indicator
6. Volume Level Indicator
7. Frequency/Surround Mode Indicator



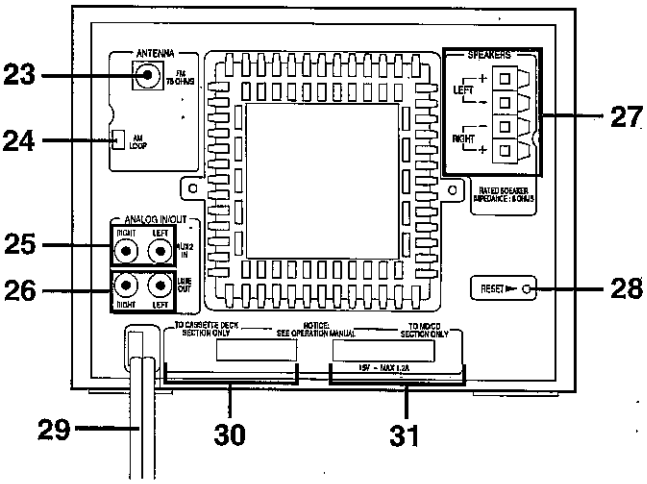
● Front panel

8. Stand-by/On Switch
9. Tuner Preset Up/Down Buttons: -/+
10. Tuning Up/Down Buttons: ▼/▲
11. Tuner Memory Button
12. Bass/Treble Select Button
13. Volume/Tone Control
14. MD ► MD Edit Button
15. Headphones Socket
16. Tuner Call (Band Select) Button
17. Auxiliary Input (Digital/Analogue) Select Button
18. 3D Surround Mode Button
19. 3D Surround On/Off Button
20. Auxiliry 1 (Analogue) /MD Edit Input Socket
21. Microphone (Stereo) Socket
22. Auxiliry Input Level (Analogue) Control



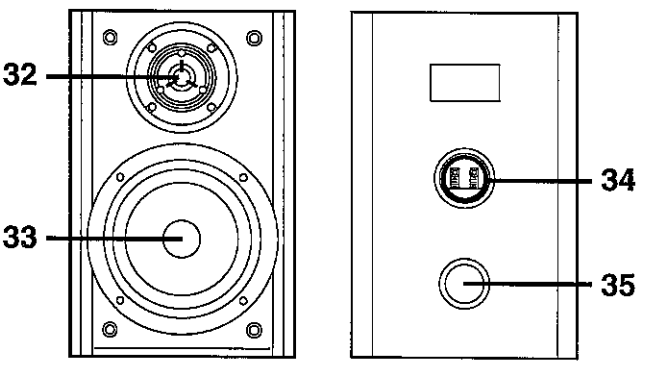
● Rear panel

23. FM 75 ohms Aerial Socket
24. AM Loop Aerial Input Socket
25. Analogue Input Sockets
26. Analogue Output Sockets
27. Speaker Terminals
28. Reset Button
29. AC Power Lead
30. TO CASSETTE DECK SECTION ONLY Socket
31. TO MD/CD SECTION ONLY Socket



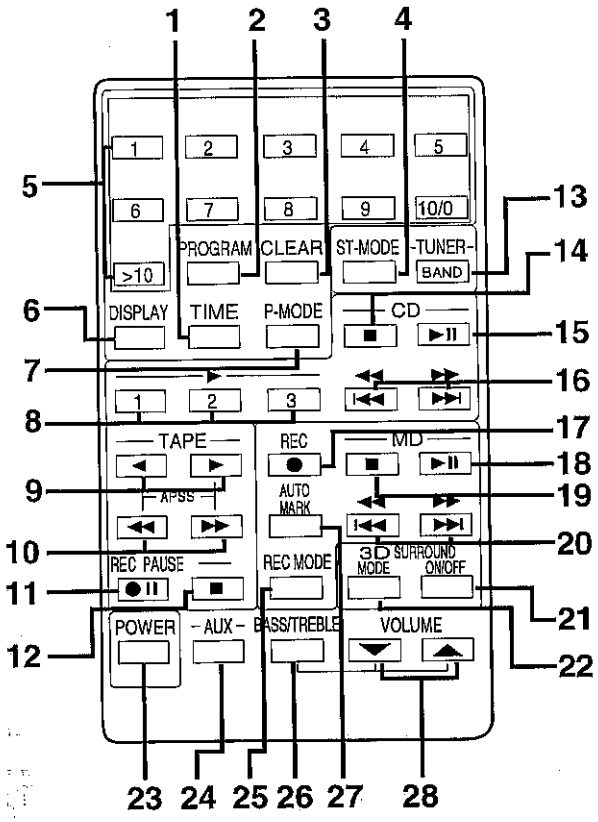
■ Speaker Section (CP-XV300H)

32. Dome Tweeter
33. Woofer
34. Speaker Terminals
35. Speaker Duct



■ Remote control

1. Time Display Select Button
2. Programme Button
3. Clear Button
4. FM Stereo Mode Button
5. Tuner Preset/CD/MD Traack Number Input Buttons
6. Display Button
7. Play Mode Button
8. CD Play Buttons: ► (1 - 3)
9. Tape Reverse Play Button: ◄
   Tape Forward Play Button: ►
10. Fast Wind/APSS Butttons: ◄◄ / ►►
11. Tape Record/Pause Button: ●II
12. Tape Stop Button: ■
13. Tuner Call (Band Select) Button
14. CD Stop Button: ■
15. CD Play/Pause Button: ►II
16. CD Track Up/Down, Cue/Review Buttons: I◄◄/►►I, ◄◄/►►
17. MD Record Button: ●
18. MD Play/Pause Button: ►II
19. MD Stop Button: ■
20. MD Track Up/Down, Cue/Review Buttons: I◄◄/►►I , ◄◄/►►
21. 3D Surround On/Off Button
22. 3D Surround Mode Select Button
23. Power Button
24. Auxiliary (Digital/Analogue) Select Button
25. Record Mode Button
26. Bass/Treble Select Button
27. Auto Mark Button
28. Volume Up/Down Buttons: ▼/▲

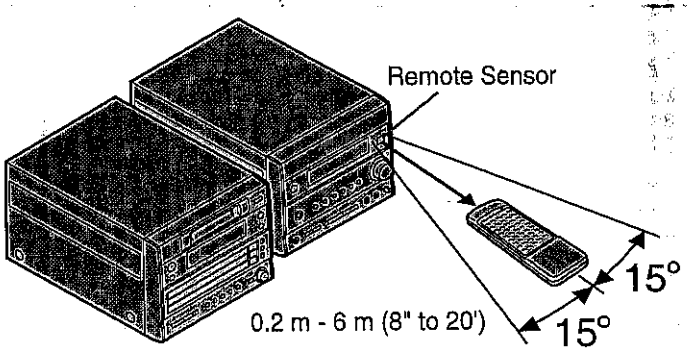


■ Proper use of the remote control

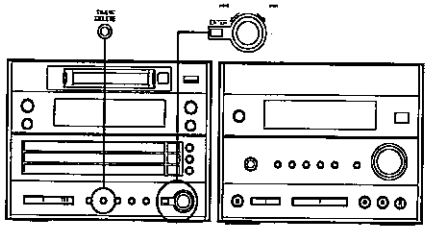
Aim the remote control at the remote control sensor within 30° with no obstacles, and operate as shown.

Notes concerning use:

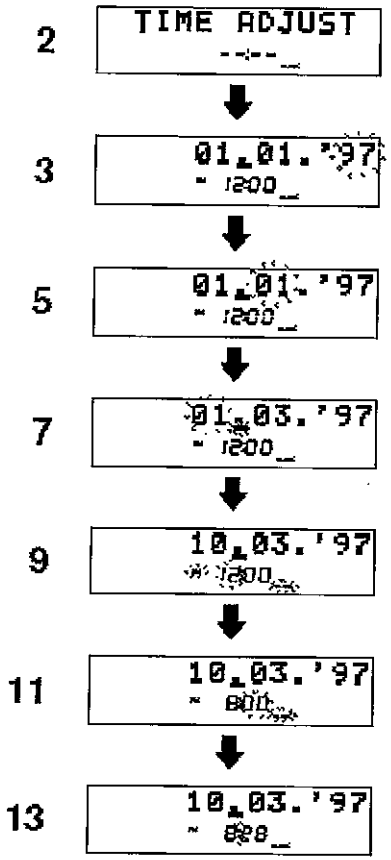
- Replace the battery if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter window on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.
- The remote control's usable range is between 0.2 m (8") and 6 m (20') away from the sensor.



SETTING THE CLOCK



MD/CD combination Receiver



(MD/CD combination operation)

When the AC power lead is connected first, the clock indicator will display "TIME-ADJUST".

1 Turn the power on, and press the TIMER/DELETE button.
2 Within 10 seconds, turn the jog dial until the TIME ADJUST display appears.
3 Within 10 seconds, press the ENTER button.
The unit enters date setting mode.
4 Adjust the year by turning the jog dial.
Turn the dial one click to advance the time by one year. Keep turning the dial to advance continuously.
For a year after 2000, set "00" for 2000, "01" for 2001 and so on.
5 Press the ENTER button to set the year.
6 Adjust the month by turning the jog dial.
7 Press the ENTER button to set the month.
8 Adjust the day by turning the jog dial.
9 Press the ENTER button to set the date.
The unit enters time setting mode.
10 Adjust the hour by turning the jog dial.
Turn the dial one click to advance the time by one hour. Keep turning the dial to advance continuously.
11 Press the ENTER button to set the hour.
12 Adjust the minute by turning the jog dial.
13 Press the ENTER button to set the minute.
The clock starts operating.

Notes:

In the event of a power failure or when the AC power lead is disconnected, the clock setting will be lost. Reset the time.
Whilst recording an MD, you cannot set the date and clock. Be sure to set the date and clock before recording.

To change the setting:

Once you have set the date and time, "TIME ADJUST" will not be displayed in procedure 2. Turn the jog dial to make the date and time appear.

If you don't need to change the settings, just press the ENTER button without turning the jog dial again.

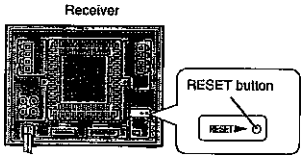
To check the date and time:

Press the TIMER/DELETE button, and turn the jog dial until the date and time appear.

MINIDISC SYSTEM LIMITATIONS

SYMPTOM	LIMITATION
Even if the maximum recording time of a MiniDisc is not been reached, "DISC FULL" or "TOC FULL" may be displayed.	When the number of tracks used reaches the limit, regardless of the remainder recording time, further recording will be impossible. (Maximum number of tracks: 254)
Even if the number of tracks and the recording time have not reached the limit, "DISC FULL" may be displayed.	When emphasis information (equalizer treatment in the treble section) in a track switches on/off many times, each change is assumed to be the beginning of a new track, which will quickly use up all available track numbers, making further recording impossible, regardless of the remaining time, recording time or the number of tracks on the original.
Even if several short tracks are erased, the remaining recording time may not show an increase.	When the remaining recording time of a disc is displayed, short tracks less than 12 seconds long may not be included in the total.
Two tracks may not be combined in editing.	For MiniDiscs on which repeated recording and editing operations were performed, the COMBINE function may not work.
The total of the recorded time and time remaining on a disc may not add up to the maximum possible recording time.	A cluster (about 2 seconds) is normally the minimum unit of recording. So, even if a track is less than 2 seconds long, it will use about 2 seconds of space on the disc. Therefore, the time actually available for recording may be less than the remaining time displayed. If there are scratches on a disc, those sections will be automatically avoided (no recording will be placed in those sections). Therefore, recording time will be reduced.
Whilst cueing or reviewing, some sound is skipped.	If you cue or review a MiniDisc that has be recorded or edited repeatedly, some sound may be skipped.

(Continued)



If a problem occurs

If this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction or the display may not function correctly. If such a problem occurs, do the following:

1 Unplug the AC power lead from the AC socket.
2 Press the RESET button on the back of the amplifier/tuner unit.
3 Plug the AC power lead back into the AC socket.
When the RESET button is pressed, all of the settings in memory will be erased.
If strange sounds, smells or smoke come out of the unit or if a foreign object falls into the unit, turn off the power, unplug the AC power lead from the AC socket, immediately. Contact the shop where you purchased the unit.

(Continued)

When an error message is displayed, proceed as follows:

Error messages	Meaning	Remedy
BLANK MD	• Nothing is recorded.	• Replace the disc with a recorded disc.
Can't ACCESS	• Whilst MD MD EDIT, incorrect digital signals are input from the portable MD .	• Make sure the cable is connected correctly and the portable MD turns on the power.
Can't COPY	• No copy can be made because of the SCMS copyright system.	• Record using the analogue cable.
Can't EDIT	• A track cannot be edited.	• Change the stop position of the track and then try editing it.
Can't REC	• Recording cannot be performed correctly due to vibration.	• Record or replace it.
DEFECT	• Since this disc has scratches on it, the recording operation was skipped.	• Replace the disc with another recordable disc.
CH ERROR	• The CD changer doesn't work well.	• Turn of the power, and disconnect the AC power lead from the AC outlet. Then connect the AC power lead, and turn on the power again.
CONNECT ERR	• Whilst MD MD EDIT, incorrect digital signals are input from the portable MD player.	• Make sure the cable is connected correctly and the portable MD turns on the power.
Din UNLOCK	• Incorrect digital signals are input.	• Connect correct digital signals. • Use the analog input socket.
DISC ERR	• The disc is damaged. • The TOC information is not recorded on the disk or the date contains.	• Reload the disc or replace it.
DISC FULL	• The disc is out of recording space.	• Replace the disc with another recordable disc.
EDIT OVER	• There is no space left for recording CD.	• Replace it with another recordable disc.
FOCUS ERROR	• A disc has not been loaded. • The disc data cannot be read.	• Reload the MiniDisc.
MD ERROR	• Trouble is found.	• Contact a Sharp Authorized Servicing Dealer or Sharp Authorized Service station.
MECHA ERR*	• There is a mechanical problem and the disc is not working properly.	• Turn off the power, and press the button.
NAME FULL	• The number of characters for the disc name or track name exceeds 40.	• Shorten the disc or track name.
NO DISC	• MiniDisc has not been loaded. • MiniDisc data cannot be read.	• Load a MiniDisc. • Reload the MiniDisc.
NOT AUDIO	• The data recorded on this disc is not audio data.	• Select another track. • Replace the MiniDisc.
PLAYBACK MD	• You tried to record on a playback-only disc. • The data of disc names and track names are not able to move from playback - only discs.	• Replace it with a recordable MiniDisc. • Edit only the sound.
PROTECT	• Trouble is found.	• Restart the unit. If the unit doesn't work, contact a Sharp Authorized Servicing Dealer or Sharp Authorized Service station.
PROTECTED	• The MiniDisc is write protected.	• Move the write protection tab back to its original position.
TEMP OVER	• The temperature is too high.	• Turn off the power, and wait for a whilst.
TOC ERR*	• The disc has a large amount of damage.	• Replace the disc with another disc.
TOC FULL*	• There is no space left for recording character information (track names, disc names, etc.)	• Replace it with another recordable disc.
TOC W ERROR	• Trouble is found.	• Contact a Sharp Authorized Servicing Dealer or Sharp Authorized Service station.
TRAY ERROR	• The disc tray for CD doesn't work well.	• Turn of the power, and disconnect the AC power lead from the AC outlet. Then connect the AC power lead, and turn on the power again.
U TOC ERR*	• The TOC information on this disc does not meet the MD specifications or it cannot be read.	• Replace it with another disc. • Erase all the data, and try recording.
U TOC W ERR	• The TOC information could not be created properly due to a mechanical shock or to scratches on the disc.	• Turn off the power, and try to write the TOC again. (Remove any source of shock or vibration whilst writing.)
? DISC	• The data contains an error.	• Replace the disc with another disc.
0 00:00	• Music is not being recorded.	• Replace the disc with a recorded disc.

*: Number or symbol

WIRING OF PRIMARILY SUPPLY LEADS (FOR UK ONLY)

If any one of the bands shown in Fig. 9 is removed for some reason, be sure replace it to the original position and same appearance as berore.

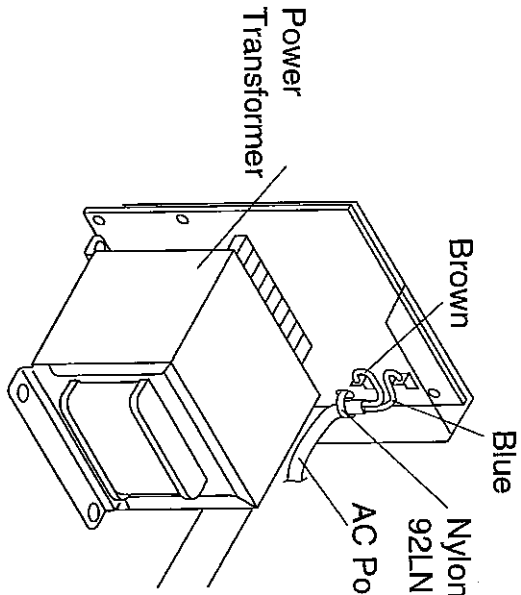


Figure 9

DISASSEMBLY

Caution on Disassembly

When disassembling the machine or assembling it after repair, observe the following instructions so as to ensure safety and keep its performance.

1. Unload the cassette tape, compact disc, and mini-disc from the machine.
2. Be sure to unplug the power cable before starting disassembly of the machine.
3. When disassembling each section, remove the nylon band or wire holder as necessary.
   When assembling after repair, be sure to restore the initial wire arrangement.
   If a screw of improper length is fit to the MD mechanism (a screw to fit the part to the mechanism chassis of MD section), it may contact the optical pickup, impeding normal operation. Hence, due care must be taken.
4. While repairing, pay utmost attention to static electricity on ICs.

MD/CD SECTION (MD-DX300H)

STEP	REMOVAL	PROCEDURE	FIGURE
1	Cabinet	1. Screw ..... (A1) x5	11-1
2	Rear Panel	1. Screw ..... (B1) x7 2. Hook ..... (B2) x2	11-2
3	Front Panel	1. Screw ..... (C1) x11 2. Flat Cable ..... (C2) x2	11-2
4	MD Holder (With MD Mechanism Unit/ Power PWB)	1. Socket ..... (D1) x6 2. Screw ..... (D2) x1	11-2
5	CD Changer Holder (With CD Mechanism/ CD Servo PWB)	1. Screw ..... (E1) x2	11-3
6	MD Power PWB	1. Screw ..... (F1) x4 2. Flat Cable ..... (F2) x1	11-4
7	MD Section	1. Screw ..... (G1) x4	11-4
8	CD Servo PWB (Note: 1)	1. Screw ..... (H1) x3 2. Socket ..... (H2) x3	11-5
9	CD Changer PWB	1. Screw ..... (J1) x2 2. Socket ..... (J2) x2	11-5
10	Tray Switch PWB	1. Screw ..... (K1) x1	11-5
11	CD Mechanism	1. Screw ..... (L1) x2 2. Top Board ..... (L2) x1 3. Stabilizer Holder .... (L3) x1 4. Disc Tray ..... (L4) x3 5. Screw ..... (L5) x3 6. Mecha Holder Guide(L6) x1 7. Mecha Holder ..... (L7) x1	11-6
12	Display PWB	1. Screw ..... (M1) x4	12-1
13	Switch PWB	1. Screw ..... (N1) x10	12-1
14	MD Mechanism Unit	1. Screw ..... (P1) x8 2. MD Mecha Holder .. (P2) x2	12-2
15	MD Main PWB	1. Screw ..... (Q1) x4 2. Socket ..... (Q2) x4	12-3
16	MD Mechanism	1. Screw ..... (R1) x6 2. Spring ..... (R2) x1 3. Cartridge Holder ..... (R3) x1	12-4

AMP. SECTION (MD-SA300H)

STEP	REMOVAL	PROCEDURE	FIGURE
1	Cabinet	1. Screw ..... (A1) x5	12-5
2	Heat Sink Cover	1. Screw ..... (B1) x2	12-5
3	Rear Panel	1. Screw ..... (C1) x8	12-5
4	Front Panel	1. Screw ..... (D1) x7 2. Knob ..... (D2) x1 3. Socket ..... (D3) x3 4. Flat Cable ..... (D4) x1	13-1
5	Main PWB	1. Screw ..... (E1) x1 2. Socket ..... (E2) x5	13-2
6	Tuner PWB (With Mic PWB)	1. Screw ..... (F1) x2 2. Socket ..... (F2) x2	13-2
7	Power PWB	1. Screw ..... (G1) x2 2. Socket ..... (G2) x1	13-3
8	Conection PWB	1. Screw ..... (H1) x3 2. Socket ..... (H2) x1	13-4
9	Display PWB	1. Screw ..... (J1) x13	13-5
10	Jack PWB	1. Screw ..... (K1) x1	13-5

SPEAKER SECTION (CP-XV300H)

STEP	REMOVAL	PROCEDURE	FIGURE
1	Speaker	1. Net ..... (A1) x1 2. Screw ..... (A2) x8 3. Woofer Ring ..... (A3) x1 4. Screw ..... (A4) x4	13-6 13-7

Note 1. After disconnecting the optical pickup connector wrap the front end of connector in the conductive aluminum foil so as to prevent electrostatic damage of optical pickup.

MD/CD SECTION (MD-DX300H)

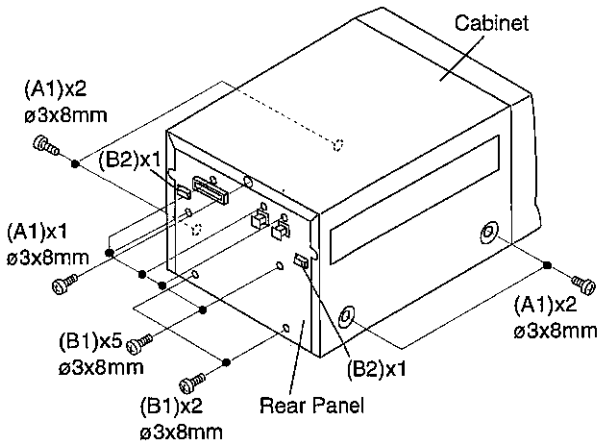


Figure 11-1

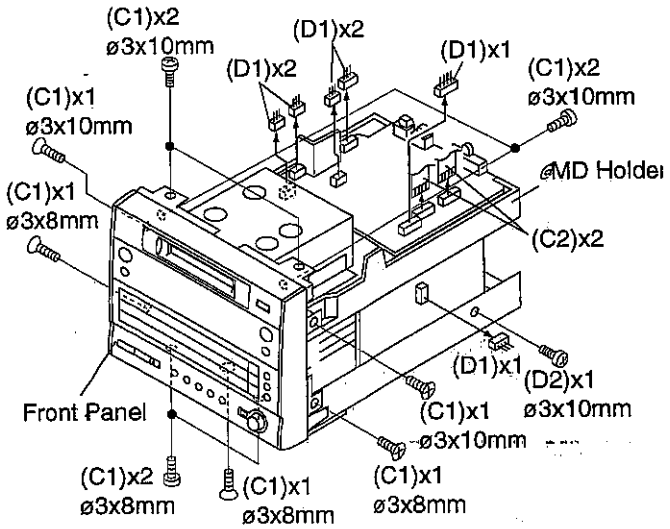


Figure 11-2

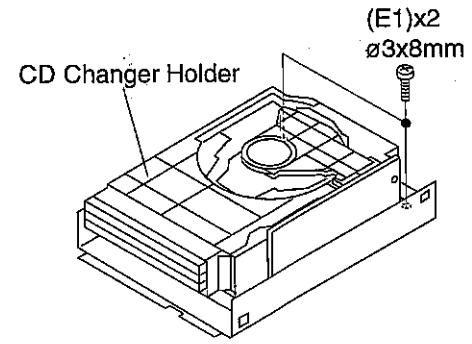


Figure 11-3

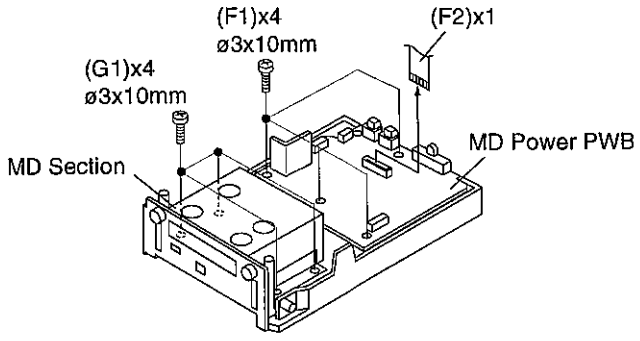


Figure 11-4

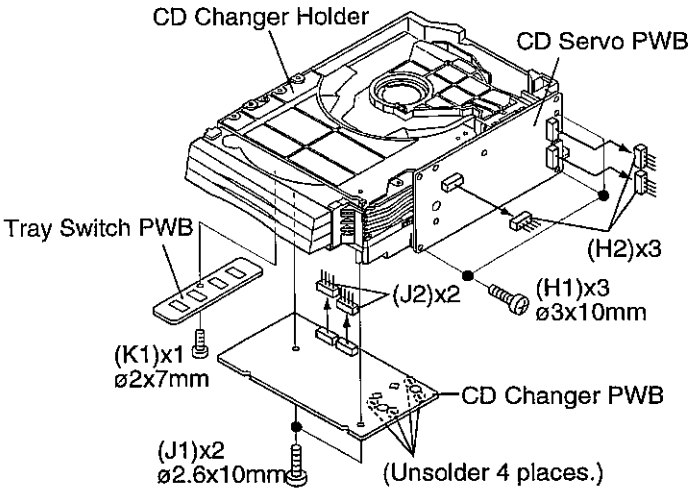


Figure 11-5

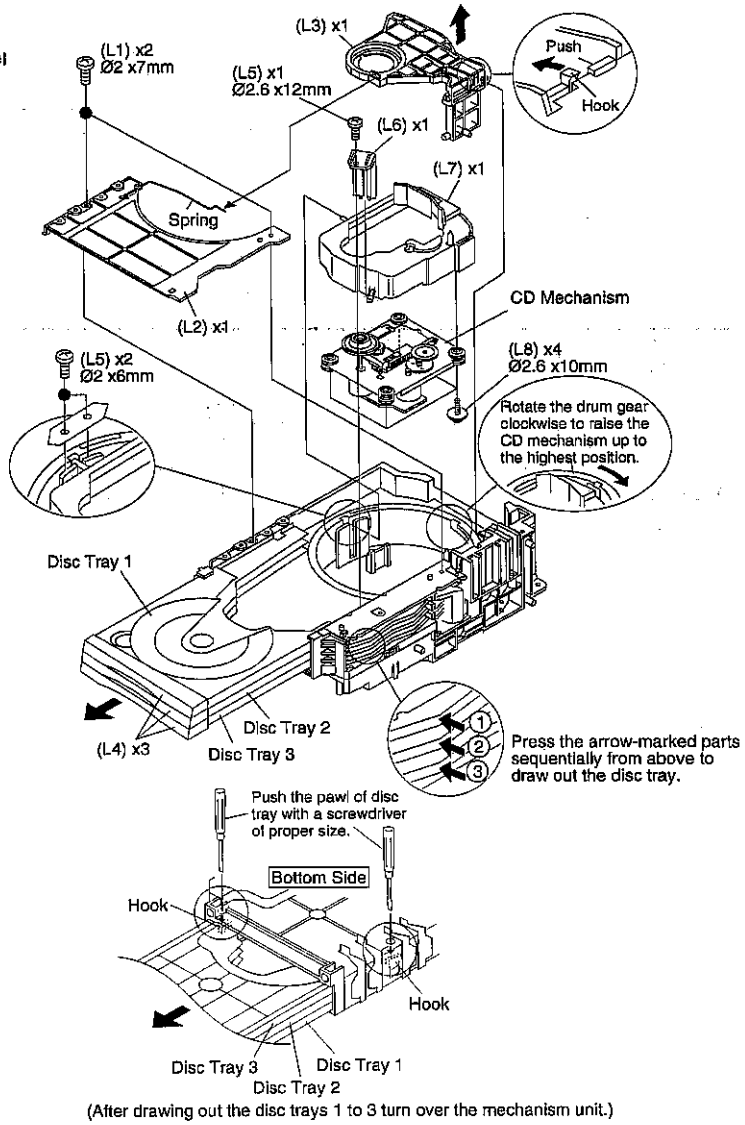


Figure 11-6

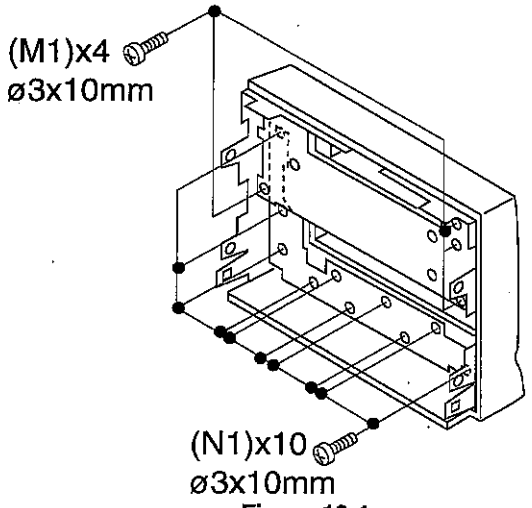
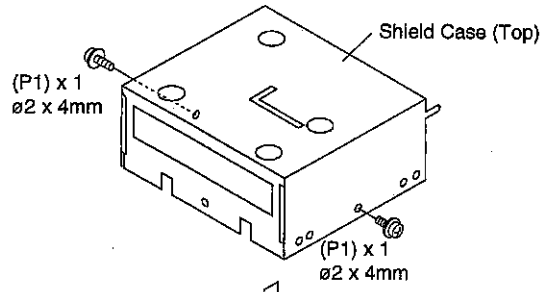


Figure 12-1



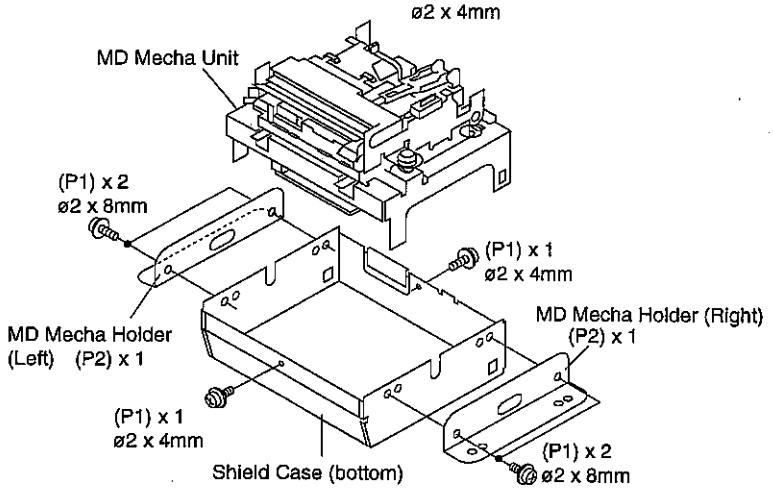


Figure 12-2

AMP. SECTION (MD-SA300H)

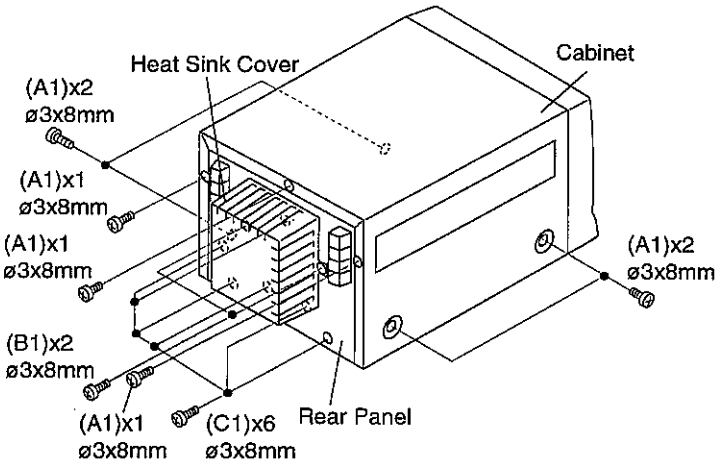


Figure 12-5

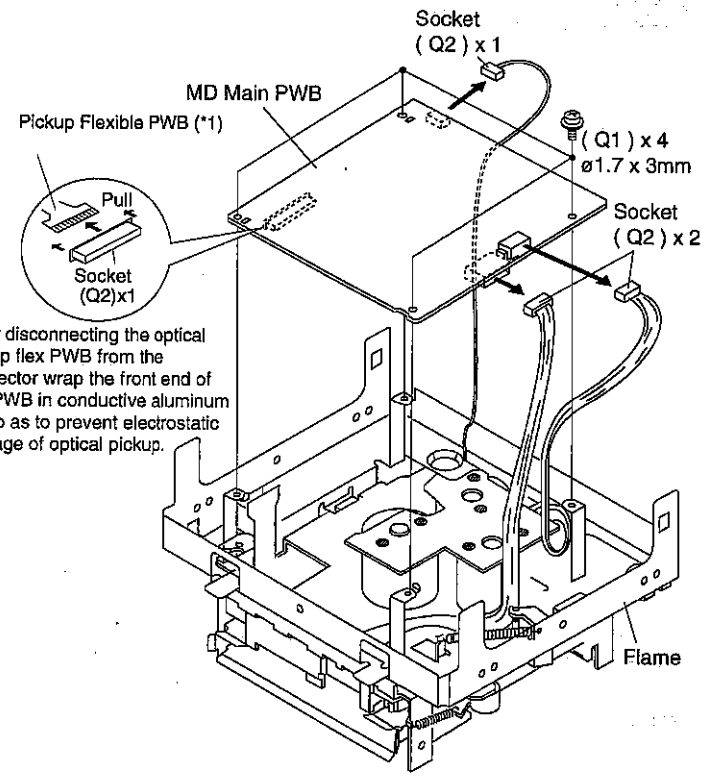

Socket
(Q2) x 1
MD Main PWB
Pickup Flexible PWB (*1)
(Q1) x 4
ø1.7 x 3mm
Pull
Socket
(Q2)x1
Socket
(Q2) x 2
(*1) After disconnecting the optical pickup flex PWB from the connector wrap the front end of flex PWB in conductive aluminum foil so as to prevent electrostatic damage of optical pickup.
Flame

Figure 12-3

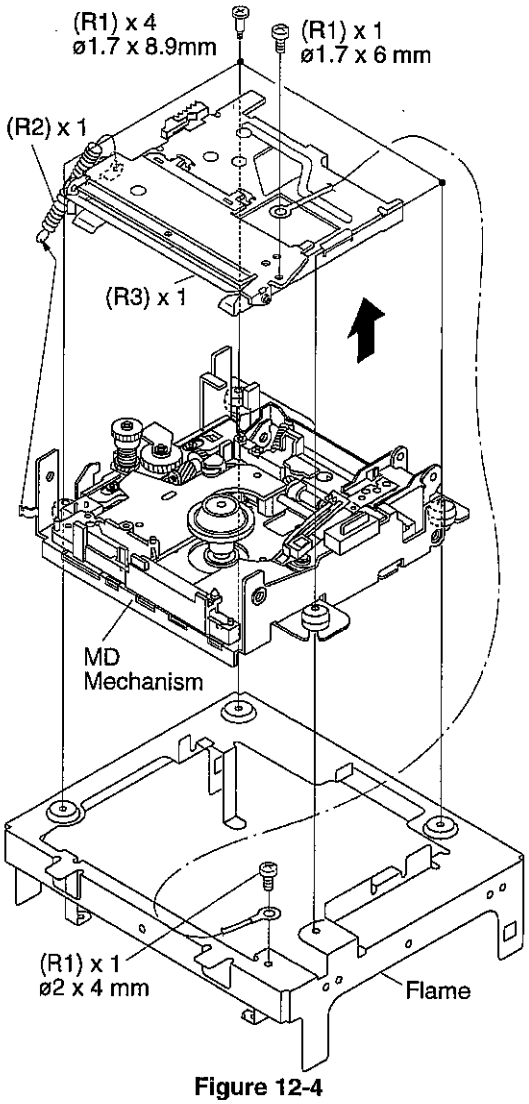


Figure 12-4

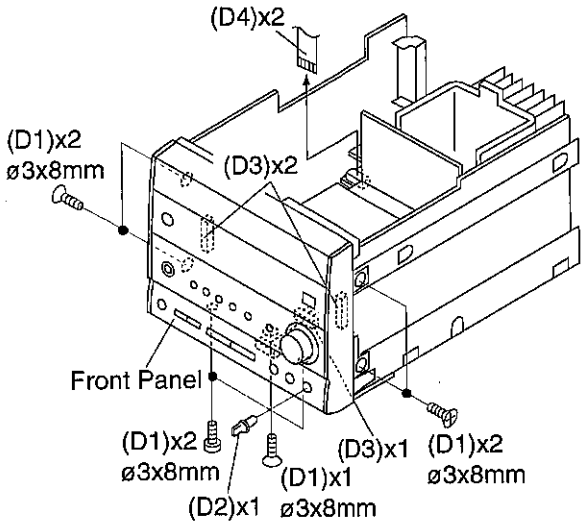


Figure 13-1

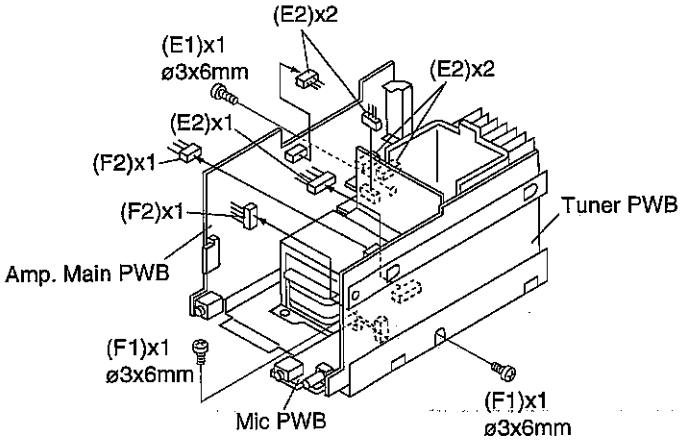


Figure 13-2

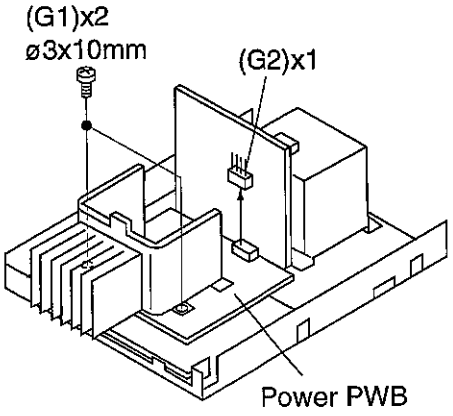


Figure 13-3

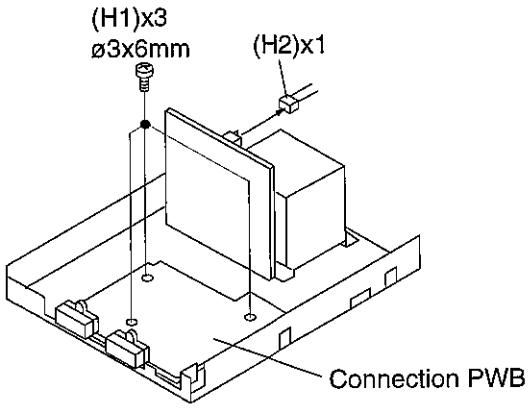


Figure 13-4

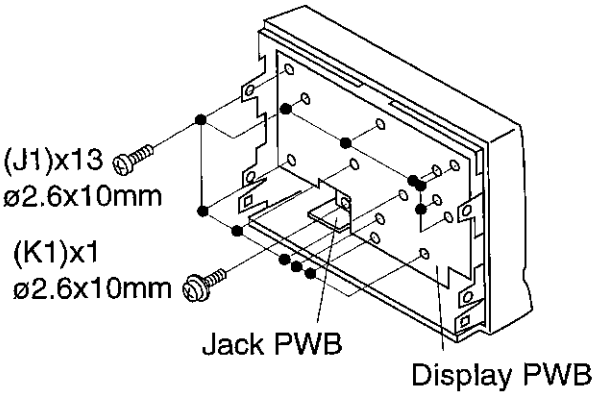


Figure 13-5

SPEAKER SECTION (CP-XV300H)

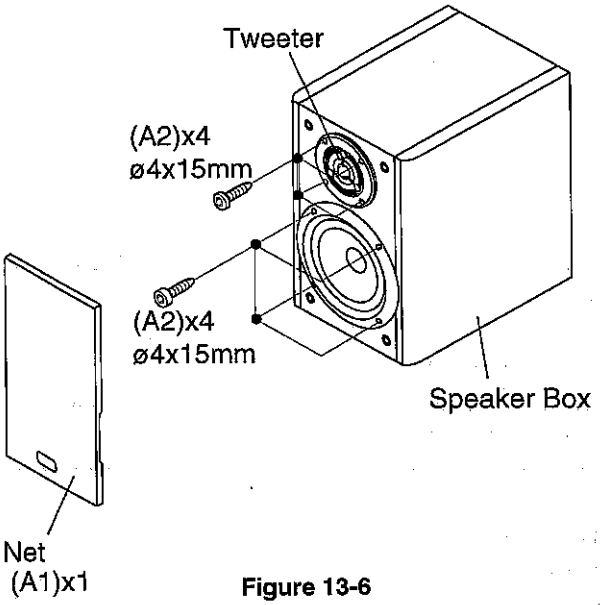


Figure 13-6

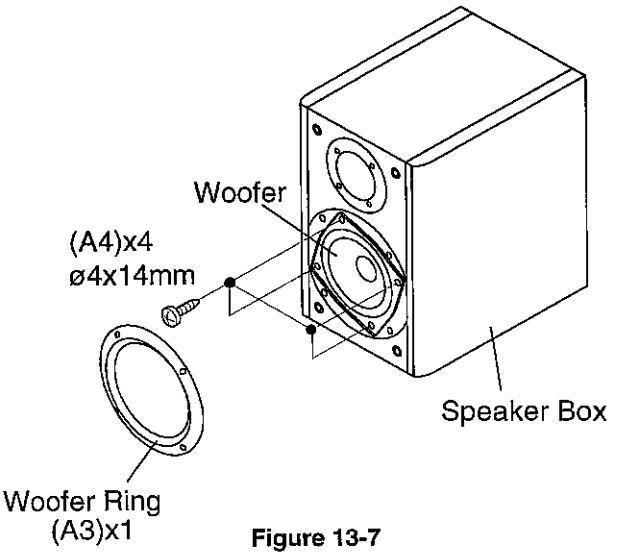


Figure 13-7

REMOVING AND REINSTALLING THE MAIN PARTS

MD MECHANISM SECTION

Remove the MD mechanism according to the disassembling procedure 1 to 4 and 14 to 16. (See p. 10.)

How to remove the motor PWB (See Fig. 14-1.)

1. Remove the solder joints (A1) x 6, and remove the motor PWB.

How to remove the disc motor (See Fig. 14-2.)

1. Remove the loading motor tightening screw, and disengage the spring (B1) x 1 engaged with the disc motor sleeve groove at the disc motor side.
2. Remove the screws (B2) x 3 pcs., and remove the disc motor.

Caution: Be careful so that the gear is not damaged.
(The damaged gear emits noise during searching.)

How to remove the slide motor/loading motor (See Fig. 14-3.)

1. Remove the screws (C1) x 4 pcs., and remove the slide motor/loading motor.

Caution: Be careful so that the gear is not damaged.
(The damaged gear emits noise during searching.)

How to remove the mechanism switch PWB (See Fig. 14-4.)

1. Remove the screws (D1) x 1 pc., (D2) x 2 pcs., and (D3) x 2 pcs., and remove the mechanism switch.

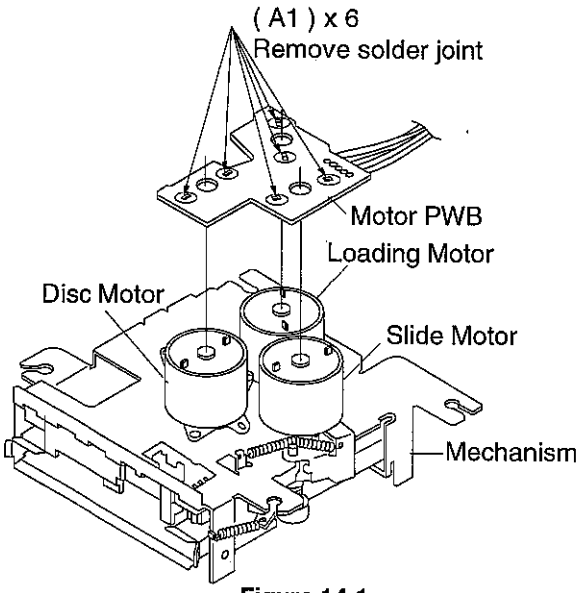


Figure 14-1

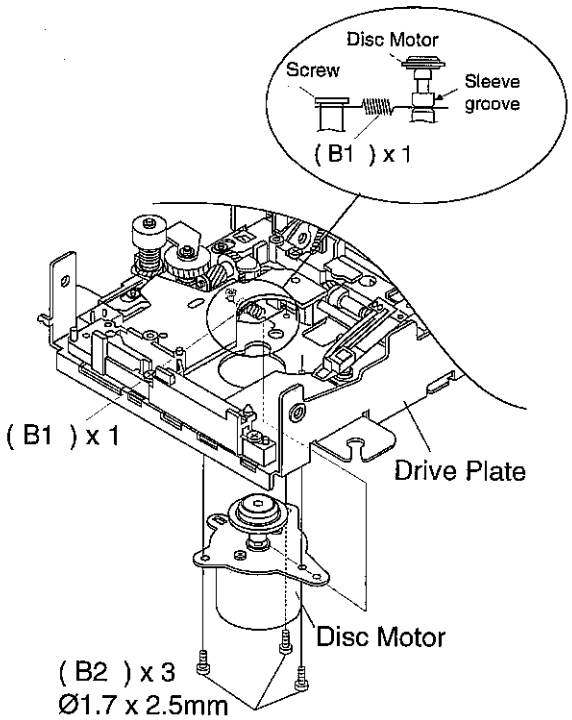


Figure 14-2

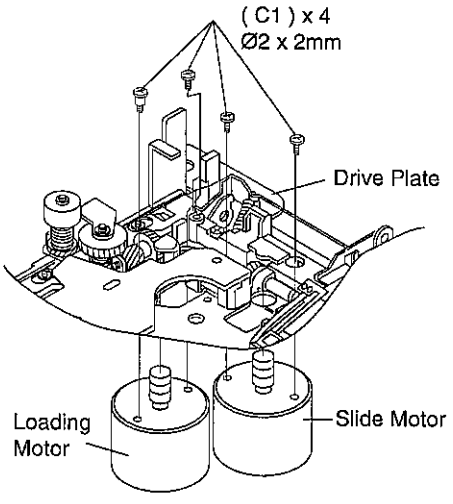


Figure 14-3

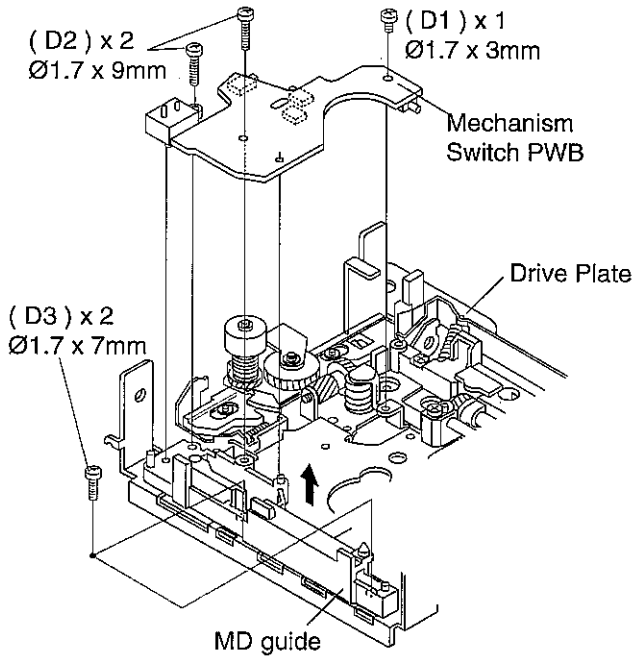


Figure 14-4

How to remove the optical pickup (See Fig. 15-1.)

1. Remove the screws (E1) x 3 pcs.

Caution:
Take utmost care so that the magnetic head is not damaged.

2. Slightly withdraw the MD pickup guide (E2) x 1 and its shaft (E3) x 1 pc., and slowly raise the optical pickup.

Caution:
Take care so that the gear is not damaged.
(The damaged gear emits noise during searching.)
Be careful so that the plate spring fitted to the shaft at the opposite side is not deformed.

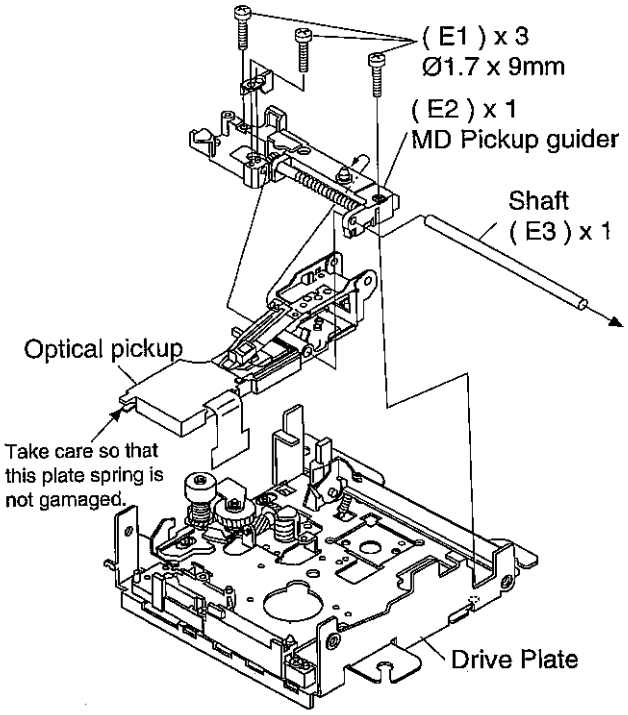

(E1) x 3
Ø1.7 x 9mm
(E2) x 1
MD Pickup guider
Shaft
(E3) x 1
Optical pickup
Take care so that this plate spring is not gamaged.
Drive Plate

Figure 15-1

How to remove the magnetic head (See Fig. 15-2.)

1. Remove the screw (F1) x 1 pc.
2. Remove the solder joint s(F2) x 2 connecting the magnetic head to the head relay flexible board.

Caution:
Take utmost care so that the magnetic head is not damaged when it is mounted.

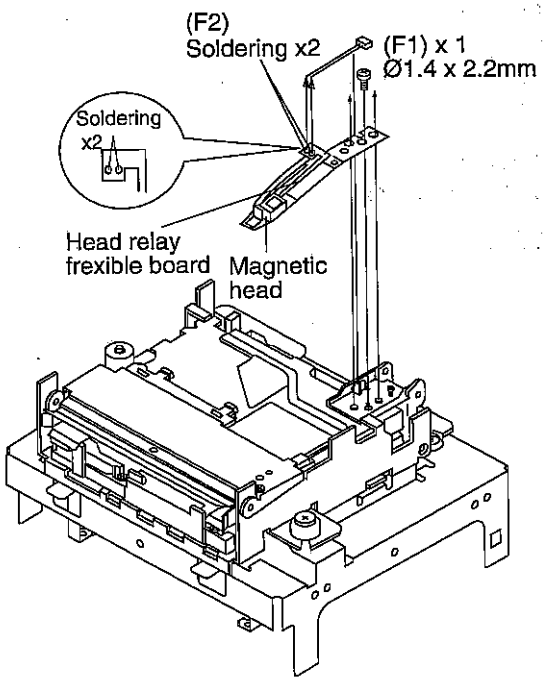


Figure 15-2

How to Replacing the loading pinch roller (See Fig. 15-3.)

1. Remove the fixing washer (G1) x 1 pc. with small precise screwdriver, and remove the loading pinch roller upward.

Caution:
The deformed or damaged fixing washer must be replaced with new one.

How to Cleaning the loading pinch roller (See Fig. 15-3.)

1. Impregnate swab with several drops of alcohol, and clean the loading pinch roller with it.
2. I Before using make sure that the cleaned parts have dried sufficiently.

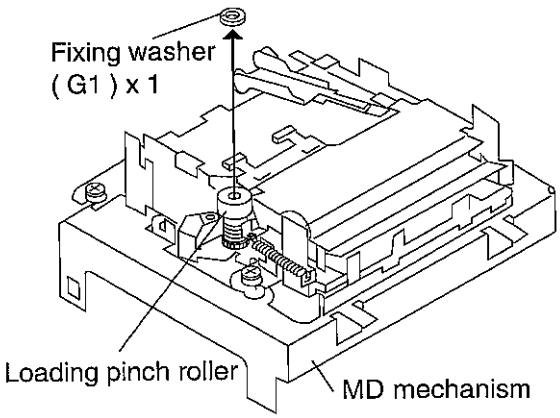


Figure 15-3

CD MECHANISM SECTION

Remove the CD mechanism according to the disassembling procedure 1 to 3 and 5, 8 and 9. (See p. 10.)

How to remove the optical pickup (See Fig. 16-1.)

1. Remove the screws (A1) x 2 pcs., to remove the shaft (A2) x 1 pc.
2. Remove the stop washer (A3) x 1 pc., to remove the gear (A4) x 1 pc.
3. Remover the pickup.

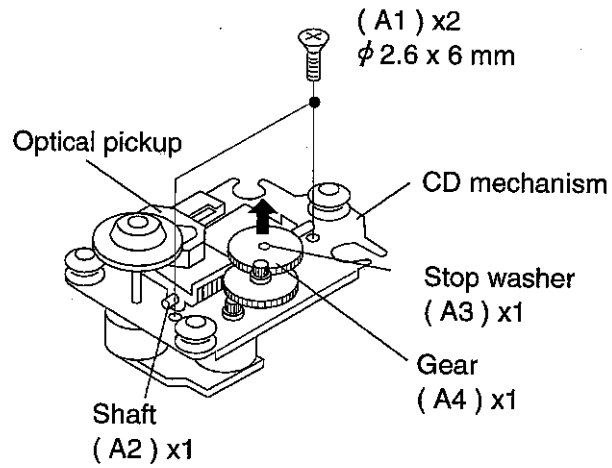


Figure 16-1

CD CHANGER MECHANISM SECTION

Remove the CD changer mechanism according to the disassembling procedure 1 to 5 and 8 to 9. (See p. 10.)

Removing the main cam motor/tray motor (See Fig. 16-2.)

1. Remove the belts (B1) x 2, and remove the screws (B2) x 4 pcs.

Removing the CD (See Fig. 16-3,16-4.)

If any trouble in the machine impedes unloading of CD, attempt to unload it, referring to Figures 14-3 and 14-4.

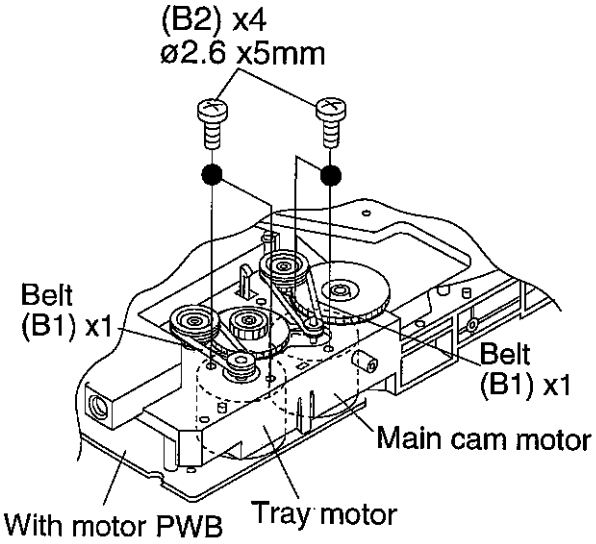


Figure 16-2

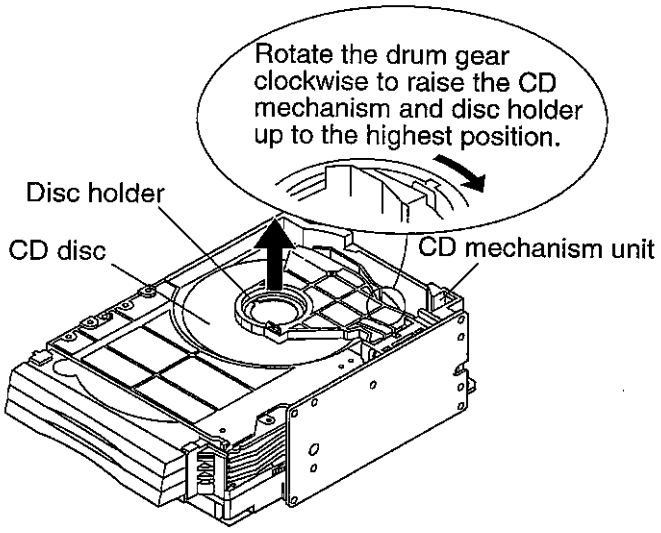

Rotate the drum gear clockwise to raise the CD mechanism and disc holder up to the highest position.
Disc holder
CD disc
CD mechanism unit

Figure 16-3 CD in playback state

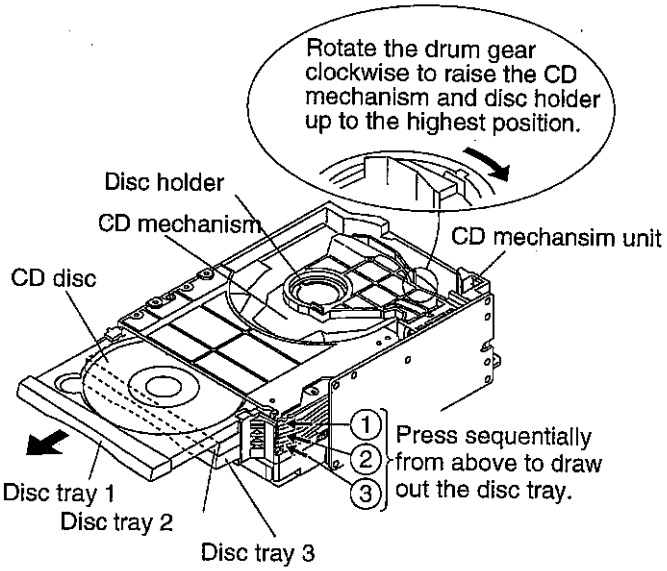

Rotate the drum gear clockwise to raise the CD mechanism and disc holder up to the highest position.
Disc holder
CD mechanism
CD mechansim unit
CD disc
1
2
3
Press sequentially from above to draw out the disc tray.
Disc tray 1
Disc tray 2
Disc tray 3

Figure 16-4 CD being laid on tray

ADJUSTMENT

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• FM IF

Adjusting item	Adjusting object	Adjusting method
Detection	L22	Input: Pin 1 of TUN1 Output: Pin 19 of IC21

• VCO Frequency

Signal oscillator	Connection	Setting
Nonmodulation	Pin 14 of IC21	256kHz

• AM IF

Adjusting item	Adjusting object	Setting
IF	CF23	Set IF waveform 450 kHz to maximum.
Frequency cover (voltage of Q11 collector VT line)	fL: L2 (522kHz) (Red core)	fL: 1.1 ± 0.1V fH: 7.5 ± 1.3V (Only check)
Tracking	fL: L1 (990kHz)	Set output of speaker terminal to maximum.

Setting the Test Mode

Keeping the TUNER (MEMORY) button and TUNER (BAND) button pressed, press RESET Switch. Then, the frequency is initially set in the memory as shown in Table. Call it with the PRESET button to use it for adjustment and check of tuner circuit.

Preset No.	Frequecy
1	FM 87.50 MHz
2	FM 108.00 MHz
3	FM 90.00 MHz
4	FM 106.00 MHz
5	FM 98.00 MHz
6	AM 522 kHz
7	AM 1620 kHz
8	AM 603 kHz
9	AM 1404 kHz
10	AM 990 kHz

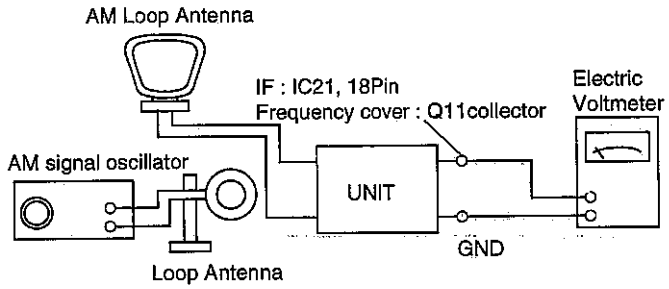


Figure 17-1 AM IF

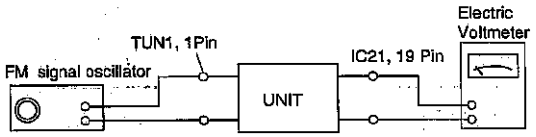


Figure 17-2 FM IF

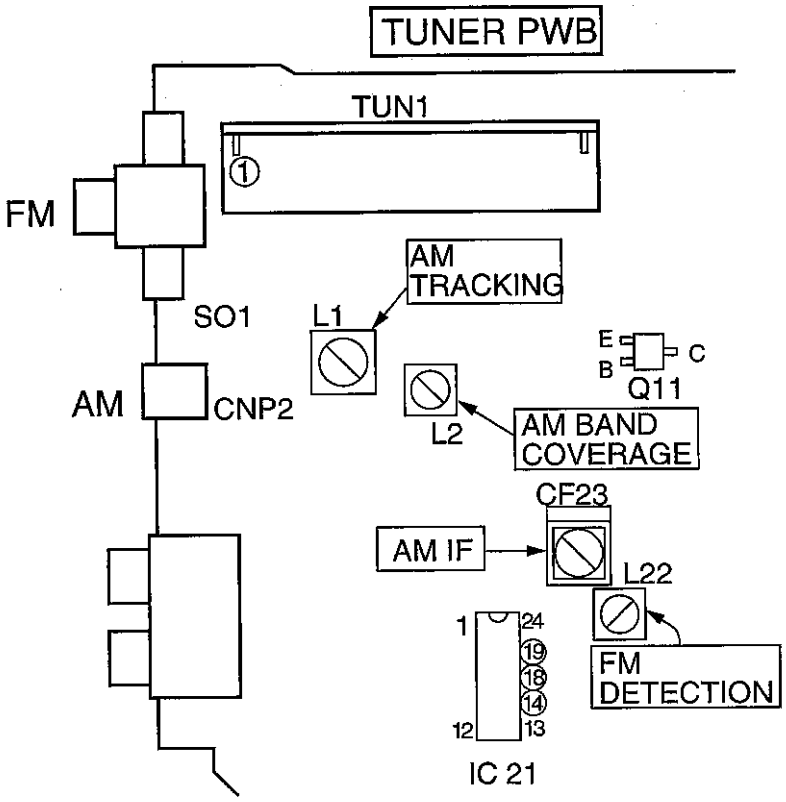


Figure 17-3 ADJUSTMENT POINTS

CD SECTION

CD circuit adjustment

1. Preparation for adjustment

CD test mode setting

Test mode	Setting procedure	Remarks	Indication
CD test mode 0	Holding down together the CD PLAY button and EDIT START button, plug in the AC cord. (Or press the RESET switch).	IL does not take place.	CD TEST0 CD test mode 0
CD test mode 1	Press the C-PLAY key.	Laser ON	CD TEST1 CD test mode 1
CD test mode 2	Press the C-PLAY key. (2nd time)	Focus servo ON	CD TEST2 CD test mode 2
CD test mode 3	Press the C-PLAY key. (3rd time)	The disc motor rotates when the spin servo is on.	CD TEST3 CD test mode 3
CD test mode 4	Press the C-PLAY key. (4th time)	Tracking servo ON	CD TEST4 CD test mode 4
CD test mode 5	Press the C-PLAY key. (5th time)	Track No. and time are indicated.	CD TEST5 CD test mode 5

Key operation in CD TEST mode

1. [STOP]; Operations are stopped, and the TEST mode standby state is set. The pickup slide is kept in stop position. (TEST mode 0 is set.)
2. [CUE]; The pickup is slid toward the outer periphery.
3. [REVIEW]; The pickup is slid toward the inner periphery. When the PU_IN switch is turned on, the slide stops. (TEST mode 0 is set.)
4. [DISP/CHAR]; When the key is pressed on or after TEST 4, it is accepted, and the mode is changed directly to TEST 3. (Tracking servo OFF)
5. Holding down [C-PLAY] for 500 msec; The key is accepted in test standby state, and the mode is changed directly to TEST 5.

Caution

1. Even when the sub-code cannot be read during playback, the STOP key must be accepted to perform the stopping operation.
2. When the [C-EJECT] key is pressed, the tray is opened after the stopping operation is performed normally.

2. Adjusting the servo unit

Set all the half-fixed resistors in the mechanical center position.

Adjustment classification	Adjusting object	Setting/adjusting procedure	Connection of measuring instrument
Set the CD test mode 0, and shift the pickup to the center.			
Set the CD test mode 1. (Make sure that laser lights.)			
After loading the disc set the test mode 2. (Make sure that the focus servo is on. The disc does not rotate but mechanical tone is heard.)			
Set the CD test mode 3. (The spin servo is turned on, and the disc turns.)			
Tracking error balance adjustment	VR751	*1 (Figure 19-1)	Pin 6 (1/2Vcc) and pin 4 (TG1) of TP751
Set the CD test mode 4. (Tracking servo ON)			
Tracking gain adjustment	VR752	Get the same waveform on CH1 and CH2. *2	Pin 4 (TG1), pin 2 (TG2) and pin 6 (1/2Vcc) of TP751 (Relay circuit is used)
Set the test mode 5, and make sure that track No. and time are indicated.			
Apply a black tape to the disc, and play back this part. (Figure 19-2). (It is allowed to apply any mode in addition to test mode.)			
Focus offset adjustment	VR753	*3	Pin 6 (1/2Vcc) and pin 1 (FG1) of TP751 *4
Tracking offset adjustment	VR754	*5	Pin 6 (1/2Vcc) and pin 4 (TG1) of TP751 *6

*1: Taking 1/2 Vcc as a reference DC level, make an adjustment so as to get the vertically symmetric waveform (Figure 23-1) with respect to the reference DC level. (Amplitude 0.5 to 1.5Vp-p) (Because the optical pickup is adjusted before shipping, make an adjustment only when adjustment deviation is found.
*2: Input oscillation frequency 1.5 kHz, 300 mVrms
*3: Make an adjustment so that the error waveform is minimized (Figure 19-3), noise (track jump noise) is not detected when audio output is monitored, and clear playback is ensured.
*4: Proper measurement range of oscilloscope is 50 mV, 0.5 ms. Connect the trigger to the pin 39 (HFD) of IC750, apply coupling at DC (-) slope, and observe the waveform in the normal trigger mode.
*5: Make an adjustment so that the error waveform is equalized and minimized (Figure 19-3), noise (track jump noise) is not detected when audio output is monitored, clear playback is ensured without sound skip and pause.
*6: Proper measurement range of oscilloscope is 0.1V, 0.5 ms. The same trigger asthat shown in *4 is used.
(Reference)
If the error waveform contains significant noise components and appears indistinctly, observe the waveform through the low-pass filter (Figure 19-4).

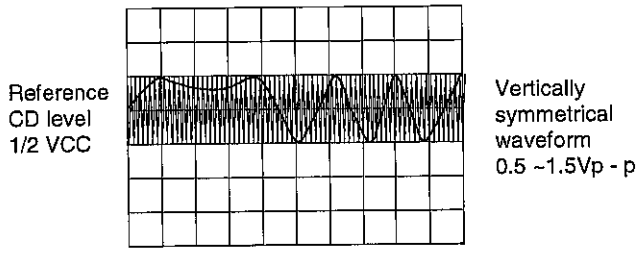


Figure 19-1 TRACKING ERROR BALANCE

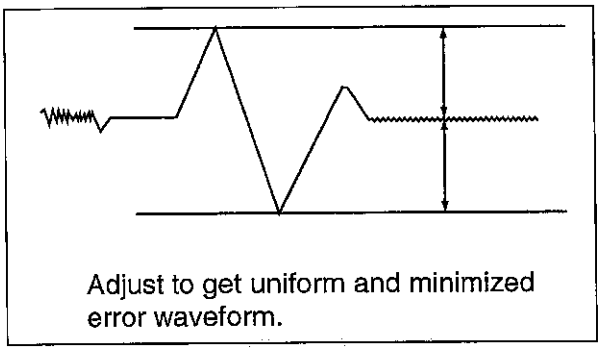
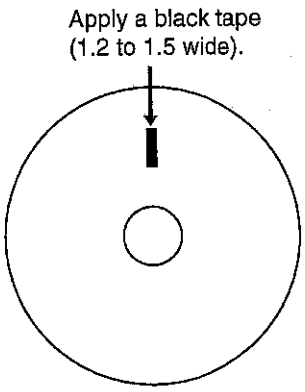


Figure 19-3 FOCUS OFFSET/TRACKING OFFSET



Itis allowed use any disc in addition to test disc.
Do not apply the black tape to the initialization part (TOC).

Figure 19-2 FOCUS OFFSET/TRACKING OFFSET

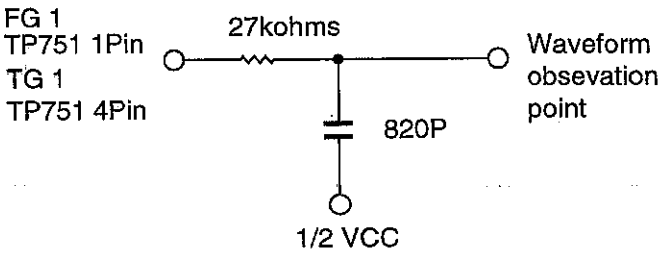


Figure 19-4 LOW-PASS FILTER

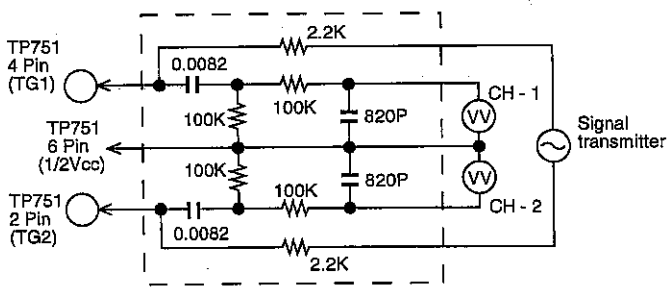


Figure 19-5 TRACKING GAIN RELAY CIRCUIT

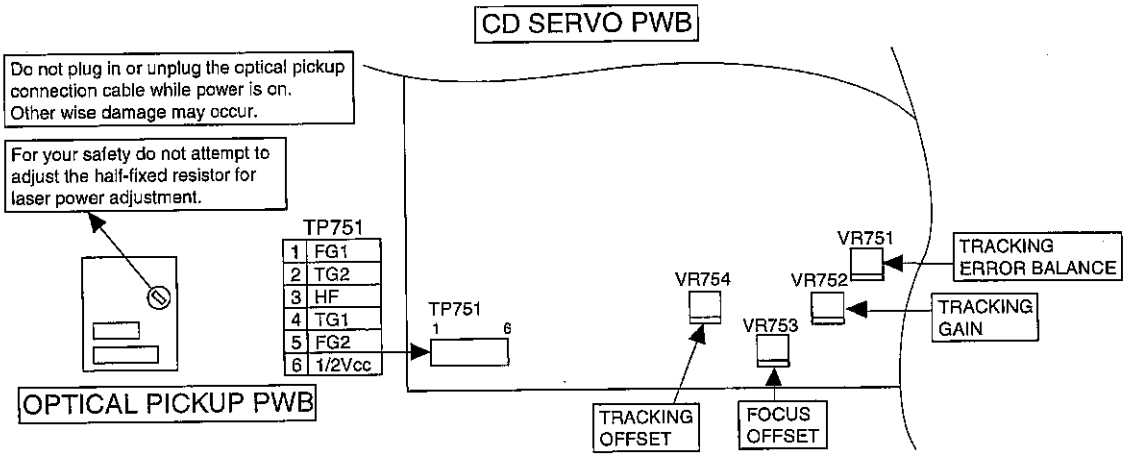


Figure 19-6 ADJUSTMENT POINTS

MD SECTION

1. Preparation for ajustment

Test disc

	Type	Test disc	Parts No.	Price Code
1	High reflection disc	TGYS1 (SONY)	RRCDT0101AFZZ	CB
2	Low reflection disc	Recording minidisc	UDSKM0001AFZZ	AZ
3	————	Head adjusting transparent disc	RRCDT0103AFZZ	BK

Extension cable (See Fig. 24-2)

	Type	Parts No.	Price Code
1	Extension PWB for Servicing	RUNTK0385AFZZ	BS
2	Extension Connector (2 Pin)	QCNWK0059AFZZ	AF
3	Extension Connecter (5 Pin)	QCNWK0060AFZZ	AH
4	Extension Cable (5 Pin)	QCNWK0061AFZZ	AK

2. Test mode

Test mode setting

1. Holding down the ENTER button and MD ▶II (PLAY/PAUSE) button, plug the AC cord into the AC socket. (Resulting in state change from A to B)
2. Load the playback disc 1 (high reflection disc) or record disc 2 (low reflection disc). (The state C is set.)

As a result, the TEST mode is set.

A: t s m○○○○ e○○ : TEST MODE
TEST STOP state
↓
B: EJECT
TEST
↓
C: AUTO
TEST

○○ represents version of MD microcomputer.
(To resume the indication A in the state B, press the MD button. To resume B again, press the CD ▶II (PLAY/PAUSE) button.)

Entering each mode

Whenever the CD ▶II (PLAY/PAUSE) button is pressed while the display indication is AUTO, the mode changes.

AUTO → RESULT → MANUAL → EEPROM_SET

- **Canceling the TEST mode**

To cancel the TEST mode, press the ENTER button, and then press the POWER button. As a result, the TEST mode is canceled, and POWER OFF state is set.
(If the ENTER button is pressed once, MD standby state is set.)

• **Test Mode**

1. AUTO Mode	• Automatic adjustment is performed. (After adjustment the grating adjustment mode is set.) • Set value is output through the display interface. • Continuous playback is performed (error rate display).
2. RESULT Mode	• Temperature is displayed. • The setting is displayed. • Set value is changed manually (in servo OFF state).
3. MANUAL Mode	• Seeing the displayed measurement value/set value, make manualadjustment to set values within the allowable range. • Continuous playback is performed (error rate display).
4. EEPROM Mode	• Parameters of digital servo are changed manually. • Each servo is set to ON individually. • Temperature detecting terminal voltage is measured, and the reference value is set.
5. INNER Mode	• Determine the position where the INNER switch is turned on.(only high reflection disc.)
6. TEST PLAY Mode	• Continuous playback from the specified address is performed. • C1 error rate measurement
7. TEST REC Mode	• Continuous record from the specified address is performed. • Change of record laser output
8. EJECT Mode	• Proceeds to TEMP setting of EEPROM setting. • Proceeds to CONTROL setting of EEPROM setting. • Laser power setting

1. AUTO Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○e○○]
Step 2	Once press the CD play button.	AUTO menu mode	[AUTO]
Step 3	Once press the MD Play button.	Slide shift to innermost periphery and start of automatic adjustment • When the high reflection disc is used, ✳✳✳ changes as follows TEO→FEO→Hfg→TRC→HTG→HTB→HFG • When the low reflection disc is used, ✳✳✳ changes as follows TEO→FEO→Lfg→LTG→LTB→ LFG→GTL→GTG→GTB→LFG	[✳✳✳ : ○○ ●●]
Step 4	If adjustment is OK, the process proceeds to Step 5. If adjustment is NG, the process proceeds to Step 10.		
Step 5	End of adjustment		[COMPLETE]
Step 6	Once press the MD Play button. Press the MD Stop button.	Step 7 Step 9	
Step 7	Continuous playback (pit section) Continuous playback (groove section)	(High reflection disc) (Low reflection disc)	[s□□□□c△△△△] [a□□□□c△△△△]
Step 8	Press the CD STOP button.	(Low reflection disc)	[a□□□□a▲▲▲▲]
Step 9	Press once the MD STOP button.	TEST mode stop state	[AUTO]
	Adjustment status output	• Adjustment NG: When TEO or FEO measured value is out of range, adjustment is disabled or focus ON is disabled.	[Can't ADJ.]
Step 10	Once press the Stop button.	Test mode STOP state	[AUTO]

• ✳✳✳: Adjustment name, ○○: Measurement name, ●●: Set value,□□□□: Address, △△△△: C1 Error, ▲▲▲▲: ADIP Error

2. RESULT Mode

Step No.	Setting Method	Remarks	Display
Step 1	TEST mode stop state		[tsmOOOOeOO]
Step 2	Press twice the CD PLAY button.	RESULT menu mode	[RESULT]
Step 3	Press the MD PLAY button.	Measured value display: Tracking error offset	[TEO: OO]
Step 4	Press the CD PLAY button.	Measured value display: Focus error offset	[FEO: OO]
Step 5	Press the CD PLAY button.	Measured value display: High reflection focus gain	[HFG: ●●]
Step 6	Press the CD PLAY button.	Measured value display: High reflection pit tracking gain	[HTG: ●●]
Step 7	Press the CD PLAY button.	Measured value display: High reflection pit tracking error balance	[HTB: ●●]
Step 8	Press the CD PLAY button.	Measured value display: Low reflection focus gain	[LFG: ●●]
Step 9	Press the CD PLAY button.	Measured value display: Low reflection pit tracking gain	[LTG: ●●]
Step 10	Press the CD PLAY button.	Measured value display: Low reflection pit tracking error balance	[LTB: ●●]
Step 11	Press the CD PLAY button.	Measured value display: Low reflection TOTAL signal level	[GTL: ●●]
Step 12	Press the CD PLAY button.	Measured value display: Low reflection groove tracking gain	[GTG: ●●]
Step 13	Press the CD Play button.	Measured value display: Low reflection groove tracking error balance	[GTB: ●●]
Step 14	Press the MD Stop button.	RESULT menu mode	[RESULT]

- ○○: Measurement name, ●●: Set value
- When the REC button is pressed, the step is reversed.
- When the JOG dial is turned toward UP while the setting is indicated, the setting increases, and the new setting is stored in RAM. When the JOG dial is turned toward DOWN while the setting is indicated, the setting reduces, and the new setting is stored in RAM.
- When the JOG dial is turned continuously toward UP/DOWN, the setting changes continuously, with a cycle being 100 ms.

3. MAMUAL Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[tsmOOOOeOO]
Step 2	Press the CD PLAY button three times.	MAMUAL menu mode	[MANUAL]
Step 3	Press the MD PLAY button.	Measurement: Temperature	[TMP:◆◆]
Step 4	Press the CD PLAY button.	Tracking error offset measurement	[TEO: OO]
Step 5	Press the CD PLAY button.	Focus error offset measurement	[FEO: OO]
Step 6	Press the CD PLAY button.	Laser lighting	[LON:]
Step 7	Press the CD PLAY button.	Slide shift to innermost periphery (6-a) Focus gain rough adjustment (high reflection) (6-b) Focus gain rough adjustment (low reflection)	 [Hfg:○○ ●●] [Lfg:○○ ●●]
Step 8	Press the CD PLAY button.	(7-a) Pit: Tracking gain adjustment (high reflection) (7-b) Pit: Tracking gain adjustment (low reflection)	[HTG:○○ ●●] [LTG:○○ ●●]
Step 9	Press the CD PLAY button.	(8-a) Pit: Tracking error balance adjustment (high reflection) (8-b) Pit: Tracking error balance adjustment (low reflection)	[HTB:○○ ●●] [LTB:○○ ●●]
Step 10	Press the CD PLAY button.	(9-a) Focus gain fine adjustment (high reflection) (9-b) Focus gain fine adjustment (low reflection)	[HFG:○○ ●●] [LFG:○○ ●●]
Step 11	Step (13) when the CD Play button is pressed. Step (11) when the MD Play button is pressed.		
Step 12	Pit section continuous playback		[s□□□□c△△△△]
Step 13	When the MD REC button is pressed, the process proceeds to (9-a) or (9-b).		
Step 14	TOTAL signal level adjustment	(High reflection disc is not accepted.)	[GTL:○○ ●●]
Step 15	Press the CD Play button.	Groove: Tracking gain adjustment	[GTG:○○ ●●]
Step 16	Press the CD Play button.	Groove: Tracking error balance adjustment	[GTB:○○ ●●]
Step 17	Press the CD Play button.	Focus gain fine adjustment	[LFG:○○ ●●]
Step 18	Press the MD Play button.	Groove section continuous playback	[a□□□□c△△△△]
Step 19	Press the CD STOP button.		[a□□□□a▲▲▲▲]
Step 20	With the MD STOP button		[MANUAL]

- ○○: Measurement name, ●●: Set value, □□□□: Address, △△△△: C1 Error, ▲▲▲▲: ADIP Error, ◆◆: Temperature Error
- Pressing the REC button results in reversing.
- When the JOG dial is turned toward UP during adjustment, the setting increases, and the new setting is output.
- When the JOG dial is turned toward DOWN during adjustment, the setting reduces, and the new setting is output.
- When the JOG dial is turned continuously toward UP/DOWN, the setting changes continuously, with a cycle being 100 ms.
- When the TOC EDIT button is pressed during continuous playback, the jump mode is changed, and the indication appears for one second.
  [1TR_JUMP] ⟶ [10TR_JUMP] ⟶ [400TR_JUMP] ⟶ [1TR_JUMP]

4. TEST/PLAY Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[tsmOOOOeOO]
Step 2	Press the START button.	TEST/PLAY menu	[TEST PLAY]
Step 3	Press the CD STOP button.	Address setting (target address value is displayed).	[ADRES 0032]
Step 4	Press the MD PLAY button.	Continuous playback from address set value (pit section) (high reflection disc) Continuous playback from address set value (groove section) (low reflection disc)	[s□□□□c△△△△] [a□□□□c△△△△]
Step 5	Press the CD STOP button.	(low reflection disc)	[a□□□□a▲▲▲▲]
Step 6	Press the MD STOP button.	Return to TEST PLAY	[TEST_PLAY]

- □□□□: Address, ...: C1 Error, ▲▲▲▲ :ADIP Error
- When the MD STOP button of TEST-PLAY menu is pressed, the TEST MODE is stopped.
- Whenever the START button is pressed during address setting, the address changes as follows.
  0032 → 03C0 → 0700 → 0850 → 0032 → •••
- The CUE/REVIEW button is used for address setting.
- Whenever the CD STOP button is pressed ruing address setting, the digit which changes according to SKIPUP/DOWN varies as follows.
  0032 → 0032 → 0032 → 0032 → •••
  *CUE: The digit of address specified above is set to +1H. (0 to F, carrying, SKIP UP: ▶▶ button)
  *REVIEW: The digit of address specified above is set to -1H. (0 to F, carrying-down, SKIP DOWN: ◀◀ button)
  *When the CUE/REVIEW button is held down, the setting changes continuously, with a cycle being 100 ms.
- When the TRACK button is pressed in the continuous playback mode, the number of jump lines changes as follows.
  1 line → 10 line → 400 line → 1 line → •••
  *After the number of jump lines is indicated for one second, the address indication is resumed. [▲▲▲TR_JUMP]
- When the CUE button is pressed in the continuous playback mode, jump for the specified number of lines occurs in the FWD direction.
- When the REVIEW button is pressed in the continuous playback mode, jump for the specified number of lines occurs in the REV direction.

5. TEST/REC Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state	Load the low reflection disc. (Release the erase preventing knob in advance.)	[tsmOOOOeOO]
Step 2	Press the START button twice.	TEST REC menu	[TEST REC]
Step 3	Press the CD STOP button.	Address setting (target address value is displayed).	[a0032 pw▽▽]
Step 4	Press the MD PLAY button.	Continuous record	[a□□□□ pw▽▽]
Step 5	Press the MD STOP button.	Test mode STOP state.	[TEST REC]

- □□□□: Address, ▽▽: Setting
- When the MD STOP button is pressed while the TEST/REC menu appears, the test mode stops.
- When the MD PLAY button is pressed while the TEST/REC menu appears, continuous recording is started from the current pickup position.
- Whenever the START button is pressed during address setting, the address changes as follows.
  0032 → 03C0 → 0700 → 0850→ 0032 → •••
- The CUE/REVIEW button is used to set address.
- Whenever the CD STOP button is pressed during address setting, the digit which changes according to CUE/REVIEW varies as follows.
  0032 → 0032 → 0032 → 0032 → •••
  *CUE: The digit of address specified above is set to +1H (0 to F, carrying, SKIP UP: ▶▶button)
  *REVIEW: The digit of address specified above is set to -1H (0 to F, carrying-down, SKIP DOWN: ◀◀ button)
  *CUE/REVIEW: When the CUE/REVIEW button is held down, the setting changes continuously, with a cycle being 100 ms.
- When the JOG dial is turned toward UP/DOWN in the address setting mode or continuous record mode, the laser record power changes.

5. EJECT Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode EJECT state		[EJECT]
Step 2-1	Press the CD PLAY button.	Record power output state	[rpw]
Step 3	Press the CD PLAY button.	Playback power output state	[rpw]
Step 2-2	Press the START button.	Proceeds to TEMP setting of EEPROM setting.	[TEMP OO ◆◆]
Step 2-3	Press the TOC EDIT button.	Proceeds to CONTROL setting of EEPROM setting.	[CONTROL1 ◆◆]

- ◆◆: Each set value, OO: Measurement name

● Lead-in switch position measurement mode

INNER Mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s mOOOOeOO]
Step 2	Press the TOC EDIT button.	INNER menu	[INNER]
Step 3	Press the MD PLAY button.	Measurement of INNER switch position	[s□□□□c△△△△]
Step 4	Press the MD STOP button.	INNER menu	[INNER]

Note: Adjust the lead-in switch position to 5FF85 to FFD2.

1. Loosen the screws A (3 pcs.) fixing the mechanism switch PWB.
2. Pressing the mechanism switch PWB in the arrow direction, retighten the screw, and then measure again the position of lead-in switch. After adjusting the position tighten the three screws A. (See Figure 24-1.)

● Forced rotation of loading motor

It is possible to rotate forcibly the loading motor by turning the JOG dial toward UP/DOWN while the display indicates AUTO or EJECT.

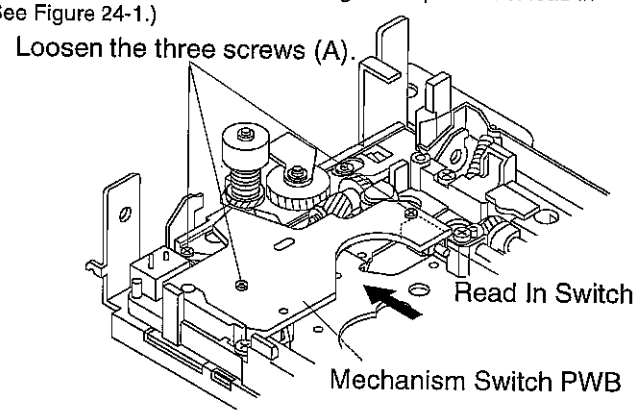


Figure 24-1

● Adjustment of magnetic head mounting position

- When the magnetic head and optical pickup have been replaced, be sure to adjust the mounting position.
- For easier adjustment of mounting position move the optical pickup to the center position, and then adjust the position.

1. Set the adjusting transparent disc 3.
2. Lower the magnetic head up-shift arm with your finger, and raise the magnetic head.
3. Viewing the set from above, make an adjustment so that the magnetic head aligns with the optical pickup objective lens.
   - •Radial direction: Slightly loosen the head fixing screw (A), and shift the magnetic head fitting to align the head with the pickup abjective lens.
   - •Circumferential direction: Turn the magnetic head circumferential adjustment nut (B), and adjust to align the head with the objective lens.
4. Make sure that there is a clearance as shown in Figure 24-2 and the magnetic head moves up and down smoothly.
5. After adjustment apply Screw Lock to the head fixing screw (A) and adjusted magnetic head circumferential adjusting screw (B).

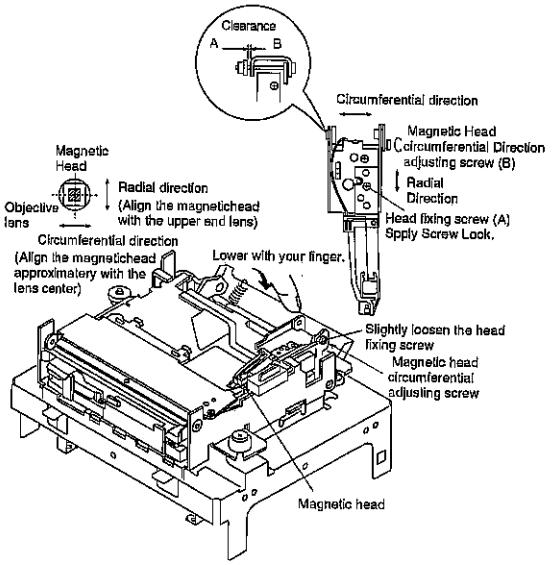

Clearance
A
B
Circumferential direction
Magnetic Head Circumferential Direction adjusting screw (B)
Radial Direction
Head fixing screw (A) Spply Screw Lock.
Magnetic Head
Objective lens
Radial direction (Align the magnetichead with the upper end lens)
Circumferential direction (Align the magnetichead approximatery with the lens center)
Lower with your finger.
Slightly loosen the head fixing screw
Magnetic head circumferential adjusing screw
Magnetic head

Figure 24-2

● Mechanism Adjustment

1. Optical pickup grating inspecting method

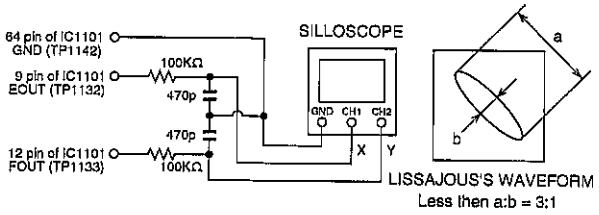


Figure 24-3 OPTICAL PICKUP GRATING DEVIATION MEASURING METHOD

After the automatic adjustment is performed in the AUTO mode (test mode) with the aid of high refection MD disc ("COMPLATE" is displayed), the Lissajous's waveform (x-y) is adjusted.

1. Slightly loosen the 3 screws of spin motor, and make an adjustment, observing the Lissajous's wavefor.
2. After adjustment tighten the screws in arder of ① , ② , ③ .

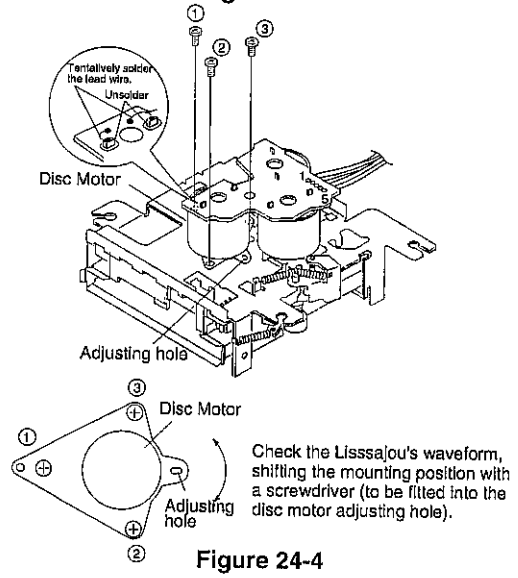

Tentatively solder the lead wire.
Unsolder
Disc Motor
Adjusting hole
Disc Motor
Adjusting hole
Check the Lisssajou's waveform, shifting the mounting position with a screwdriver (to be fitted into the disc motor adjusting hole).

Figure 24-4

2. Jitter adjustment and checking method

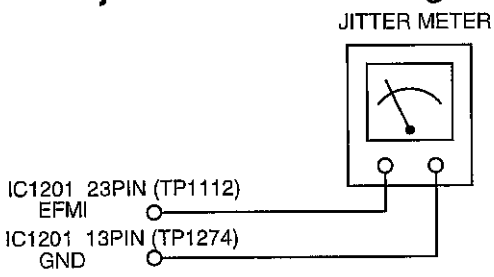


Figure 25-1 Jitter connection diagram

After performing the automatic adjustment in the AUTO mode (TEST mode using the low reflection MD disc) adjust the FB (focus balance) VR1110 provided on the main PWB to adjust the jitter to the best point. At this time the jitter must be less than 31 ns.

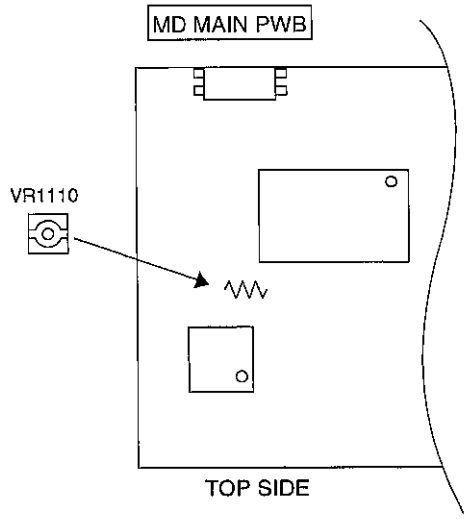


Figure 25-2

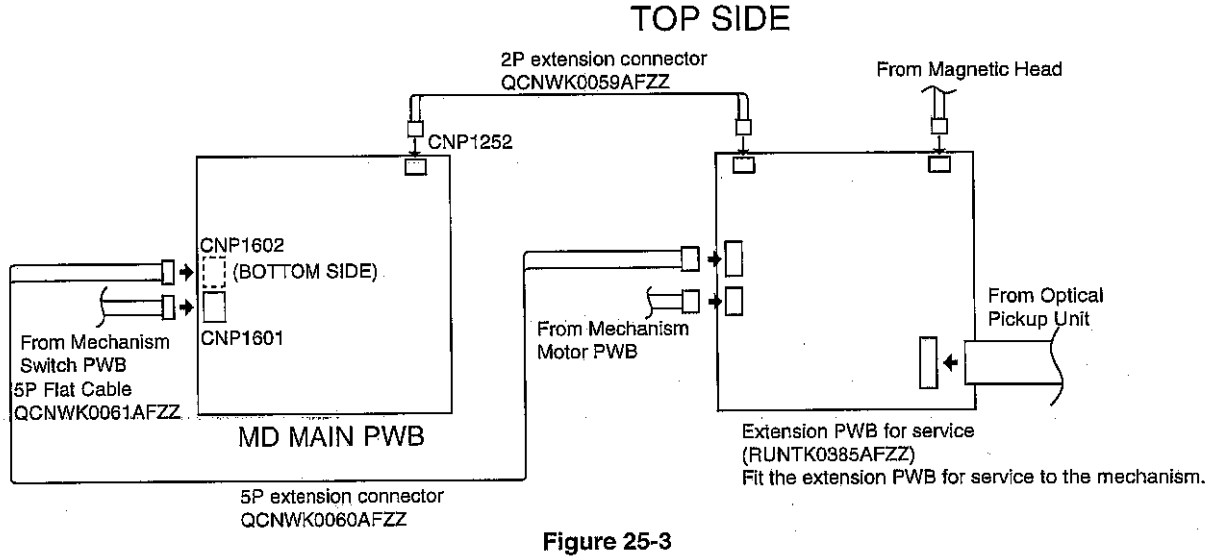


Figure 25-3

EXPLANATION OF ERROR DISPLAY

Error display	Errors	Corrective action
Can't REC	• Defect occurred successively 10 times during REC-PLAY. • As a result of occurrence of defect during REC-PLAY the recordable cluster became zero. • Address is unreadable. REC state cannot be set for 20 seconds although retry is repeated.	• Check that the disc is free from flaw, dust and fingerprint. Check whether there is any black spot. Check for disc disalignment and run-out.
Can't COPY	• The following judgement is made according to the channel status of digital signal which was input from D-IN during REC-PAUSE or REC-PLAY. (1) Other than audio signal (2) Other than signals of home-use appliances (3) Copy NG due to inversion of copy bit in CD.	• Check whether CD is copy-inhibited one. (An example: CD-R)
Din UNLOCK	• The digital signal which was input from D-IN during REC-PAUSE, REC-PLAY or CD FUNC playback caused the following. (1) PLL of digital IN was unlocked. (2) Locking occurred in condition other than FS = 44.1 kHz.	• Check whether there is any abnormality in the D-IN signal line.
TOC FULL	• There were no areas to record music or character information (music name, disc name, etc.) during REC-PLAY.	• Replace the disc with a recording/playback disc in which an area to register UTOC remains.
UTOC ERR R	• FTNO > LTNO • FTNO ≠ 0 or 1 • UTOC recorded on disc could not be read.	• UTOC data is not normal. Replace the disc with other disc.
UTOC ERR A	• Start address > End address	• UTOC data is not normal. Replace the disc with other disc.
UTOC ERR L0~4	• Any data of UTOC 0 to 4 looped.	• UTOC data is not normal. Replace the disc with other disc.

Error display	Errors	Corrective action
NOT AUDIO	• Nonaudio data was recorded in the track mode of currently selected TNO.	• Select other TNO or replace the disc with other disc.
? DISC	• Data "MINI" of system ID which has been written in TOC with ASCII code is not correct. • The disc type written in TOC does not correspond to pre/mastered MD, recording MD and hybrid MD.	• The loaded disc is not applicable. Replace the disc, and check.
DISC FULL	• When an attempt to set REC-PAUSE was made, there were no recordable areas.	• Replace the disc with other recording disc in which recording area remains.
PLAYBACK MD	• An attempt to set REC-PAUSE or to start editing was made on the playback-only disc.	• The loaded disc is a playback-only disc. Replace the disc with a recording disc.
PROTECTED	• An attempt to record or edit was made on the record/playback disc with its careless erase preventing tab being in erase preventing state. • An attempt was made to edit the track which was write-protected by information written in UTOC.	• Return the careless erase preventing tab to its initial position, and redo. • The track on which an attempt to edit was made is a write-protected track. Redo on another track.
Can't EDIT	• Specific editing conditions were not satisfied.	• The applied operation procedure is not proper. Redo, applying the correct procedure.
TEMP OVER	• Check that the disc is free from flaw, dust and fingerprint. Check whether there is any black spot. Check for disc disalignment and run-out.	• Check by troubleshooting. • Check whether the ambient temperature is too high.
DISC ERR RD PA WR	• Read data was not correct or data could not be read correctly. • Trouble occurred during recording of music data, resulting in record failure.	• Data of TOC or UTOC is not normal or disc has flaw. Replace the disc with other disc.
TOC ERR S TOC ERR R TOC ERR T	• TOC was read but data was not correct. • TOC could not be read.	• The TOC information recorded on disc does not conform to the MD standard. Replace the disc with other disc. • The disc has flaw. Replace the disc with other disc.
UTOC W ERR	• Trouble occurred during rewriting of UTOC, resulting in UTOC rewriting failure.	• The disc has flaw. Replace the disc with other disc.
FOCUS ERROR	• After the disc was loaded, focusing failure occurred.	• Check that the disc is free from flaw, dust, fingerprint and black spot. Check for disc disalignment and run-out.
BLANK MD	• UTOC was read but total TNO and the number of characters of NAME was 0.	• Perform recording to check that the disc is recordable disc.
DEFECT	• Focusing error was caused by shock during REC-PLAY.	• Check that the disc is free from flaw, dust, fingerprint and black spot. Check for disc disalignment and run-out.
TOC W ERROR	• Although UTOC can be read but UTOC cannot be rewritten.	• Check that the record head contact is normal. Check that there is no broken wire between PWB and the recording head.
MD ERROR	• Data of EEPROM is not correct.	• Once reset, and redo. If error occurs persistently, replace EEPROM.

EXPLANATION OF MECHANISM ERROR

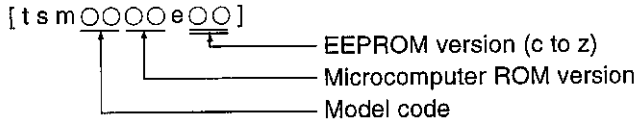
Error display	Errors
M E C H A _ E R R 1 _ * M E C H A _ E R R 2 _ * M E C H A _ E R R 3 _ *	Ejection failure Head-up failure Head-down failure

		HINF (IC1401 97 PIN)
* = E	Ejection completion position	> 2.77 V
* = M	Horizontal midway position	> 2.77 V
* = L	Load completed position	1.68 ~ 2.23 V
* = D	Head-down position	1.19 ~ 1.66 V

● EEPROM (IC402) writing procedure

1. Procedure to replace EEPROM and to write the initial value of microcomputer in EEPROM

(1) Replace EEPROM.
(2) Refer to the latest EEPROM data list.
(3) Holding down the ENTER key and MD PLAY key, plug the AC cord into the AC socket, and start up the test mode.
(4) Indication of version



(5) Press the CD PLAY key 4 times.
[E E P R O M S E T]
(6) Perform the operation shown in the "EEPROM setting mode chart", compare the indication with the EEPROM data list, and make a setting according to the EEPROM data list, using JOG dial UP or JOG dial DOWN.
(7) Set the temperature reference value. (Refer to "Temperature reference setting procedure".)
(8) The setting must conform to the EEPROM data list.
(9) Turn off power supply to write in EEPROM.

2. Temperature reference value setting procedure (to be executed at room temperature within 21 to 29°C)

(1) TEST mode stop state
[t s m ○○○○ e ○○]
(2) Correct temperature depending on ambient temperature according to the following table.

Ambient temperature (°C)	Temperature correction
21 ~ 22.3	- 01H
22.3 < 26.3	± 0
26.3 < 29	+ 01H

An example: When ambient temperature is 22°C and measured temperature is 73H
Temperature setting = 73 H - 01 H
= 72 H
* When the measured temperature fluctuates between two values, take lower one (if temperature fluctuates between 73H and 72H, take 72H).

(3) Press the MD PLAY key.
[E E P R O M S E T]
(4) Press the CD PLAY key 4 times.
[T e m p]
(5) Press the RECORD key.
[T E M P ○○ ◆◆] ○○: Measured temperature ◆◆: Temperature setting
(6)Set temperature to the value determined above, using the JOG dial UP or JOG dial DOWN key.
(7) Set the temperature reference value. (Refer to "Temperature reference setting procedure".)
(8) Press the STOP key.
[E E P R O M S E T]

● EEPROM Data List

Focus setting

Item indication	Setting
FG OO	67H
FF1 OO	70H
FF2 OO	F0H
FF3 OO	FEH
FF4 OO	00H
FZHLEV OO	13H
FOKLEVn OO	F6H
FOKLPFn OO	00H
FOKLPFf OO	88H
WAITf OO	3AH

Spin setting

Item indication	Setting
SPG OO	18H
SPG—in OO	88H
SPG—mid OO	66H
SPG—out OO	47H
SP1 OO	10H
SP2 OO	87H
SP3 OO	E9H
SP4 OO	EAH
SP5 OO	10H

TEMP setting

Item indication	Setting
TEMP OO	73H

Tracking setting

Item indication	Setting
TG OO	45H
TF1 OO	95H
TF2 OO	E0H
TRBLVo OO	40H
TRBLVt OO	60H
TRKLVo OO	48H
TRKLVt OO	28H
TDPWo OO	75H
TDPWt OO	1AH
SLCTo OO	00H
SLCTt OO	40H
SLCTm OO	53H
COTLVHp OO	14H
COTLVLp OO	ECH
COTLVHr OO	28H
COTLVLr OO	D8H
WAITm OO	90H

Slide setting

Item indication	Setting
SLG OO	35H
SL2 OO	27H
SLDLEV OO	0AH
SLKLVk OO	78H
SLKLVt OO	50H
SLKLVm OO	78H

Control setting

Item indication	Setting
CONTRL1 OO	80H
CONTRL2 OO	01H

● EEPROM Setting Mode Chart

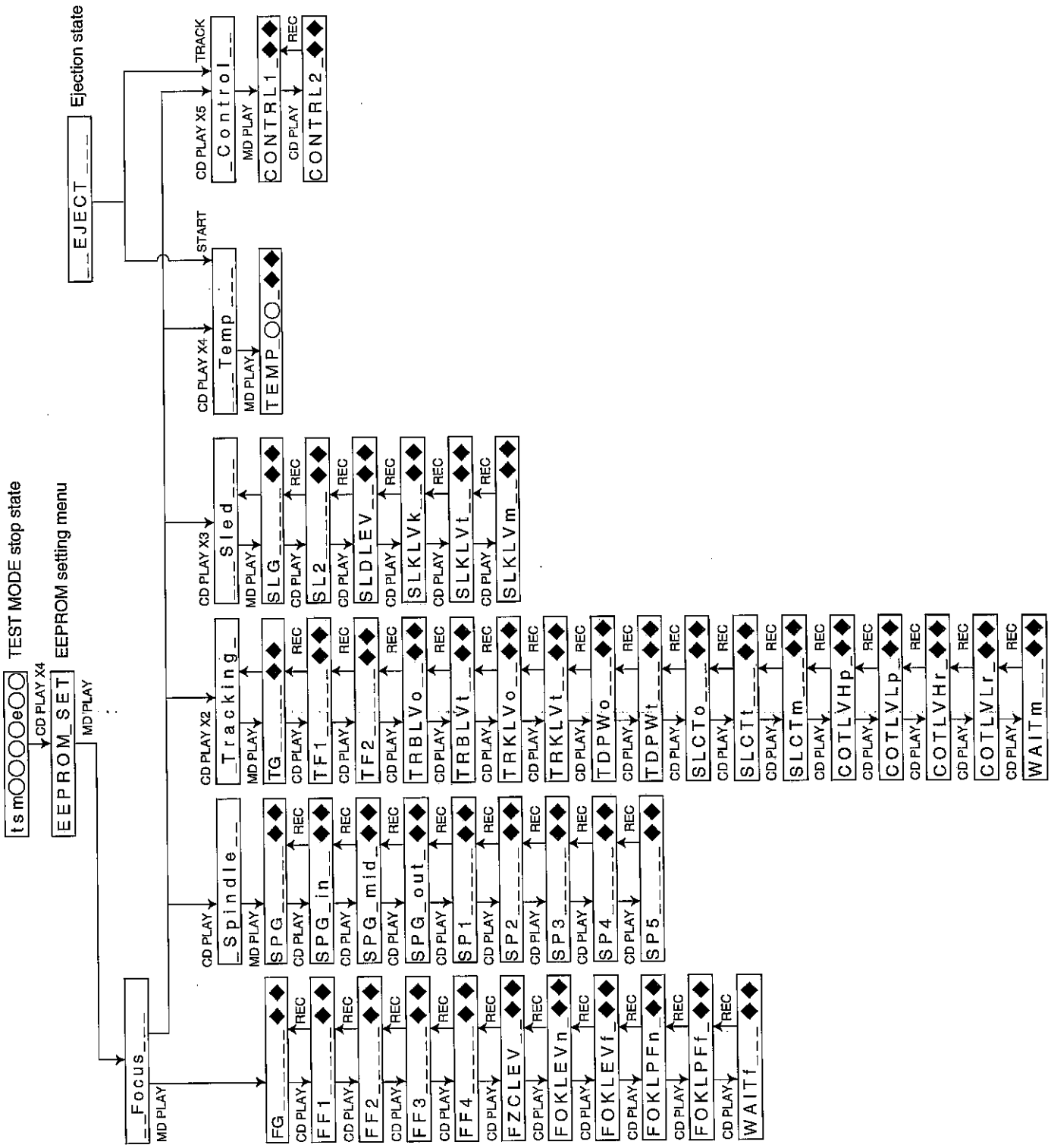


Figure 29

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Parts marked with " ⚠ " (⊏ = = ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

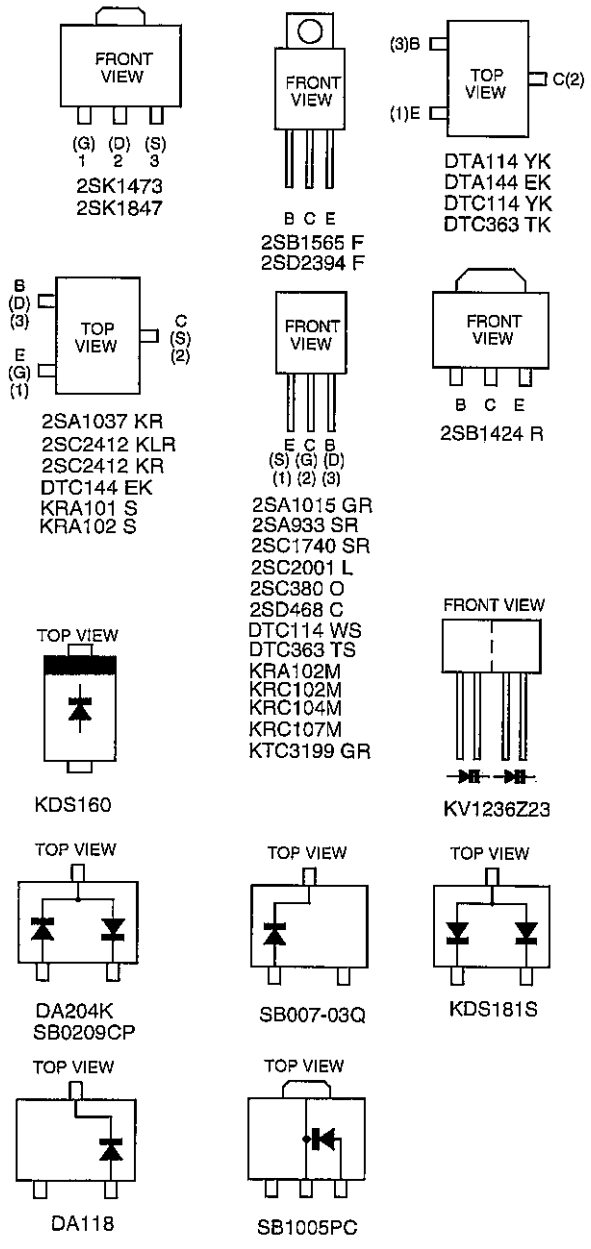


Figure 30 TYPES OF TRANSISTOR AND LED

REF. NO	DESCRIPTION	POSITION
SW401	RESET	ON—OFF
SW702	PICKUP IN	ON—OFF
SW951	CD OPEN/CLOSE	ON—OFF
SW970	POWER	ON—OFF
SW971	MD EDIT	ON—OFF
SW972	TUNER	ON—OFF
SW973	AUX	ON—OFF
SW974	3D SURROUND	ON—OFF
SW975	3D SURROUND ON/OFF	ON—OFF
SW976	BASS/TREBLE	ON—OFF
SW977	TUNER MEMORY	ON—OFF
SW978	TUNING UP	ON—OFF
SW979	TUNING DOWN	ON—OFF
SW980	PRESET +	ON—OFF
SW981	PRESET -	ON—OFF
SW1951A/B	DISC PROTECT/DISC MEDIA	ON—OFF
SW1953	LEAD IN	ON—OFF
SW1954	MD PLAY	ON—OFF
SW1955	MD RECORD	ON—OFF
SW1956	LOADING	ON—OFF
SWA101	MD PLAY	ON—OFF
SWA102	MD STOP	ON—OFF
SWA200	MD EJECT	ON—OFF
SWA201	DISPLAY	ON—OFF
SWA202	TIMER/DELETE	ON—OFF
SWA203	NAME/TOC EDIT	ON—OFF
SWA204	REC	ON—OFF
SWA205	START	ON—OFF
SWA206	TRACK	ON—OFF
SWA207	REVIEW	ON—OFF
SWA208	CD PLAY/PAUSE	ON—OFF
SWA209	CD—STOP	ON—OFF
SWA210	DISC 1	ON—OFF
SWA211	DISC 2	ON—OFF
SWA212	DISC 3	ON—OFF
SWA213	DISC 1 EJECT	ON—OFF
SWA214	DISC 2 EJECT	ON—OFF
SWA215	DISC 3 EJECT	ON—OFF
SWA216	ENTER	ON—OFF
SWA217	CUE	ON—OFF
SWB101~104	CAM	ON—OFF
SWB105~108	TRAY	ON—OFF

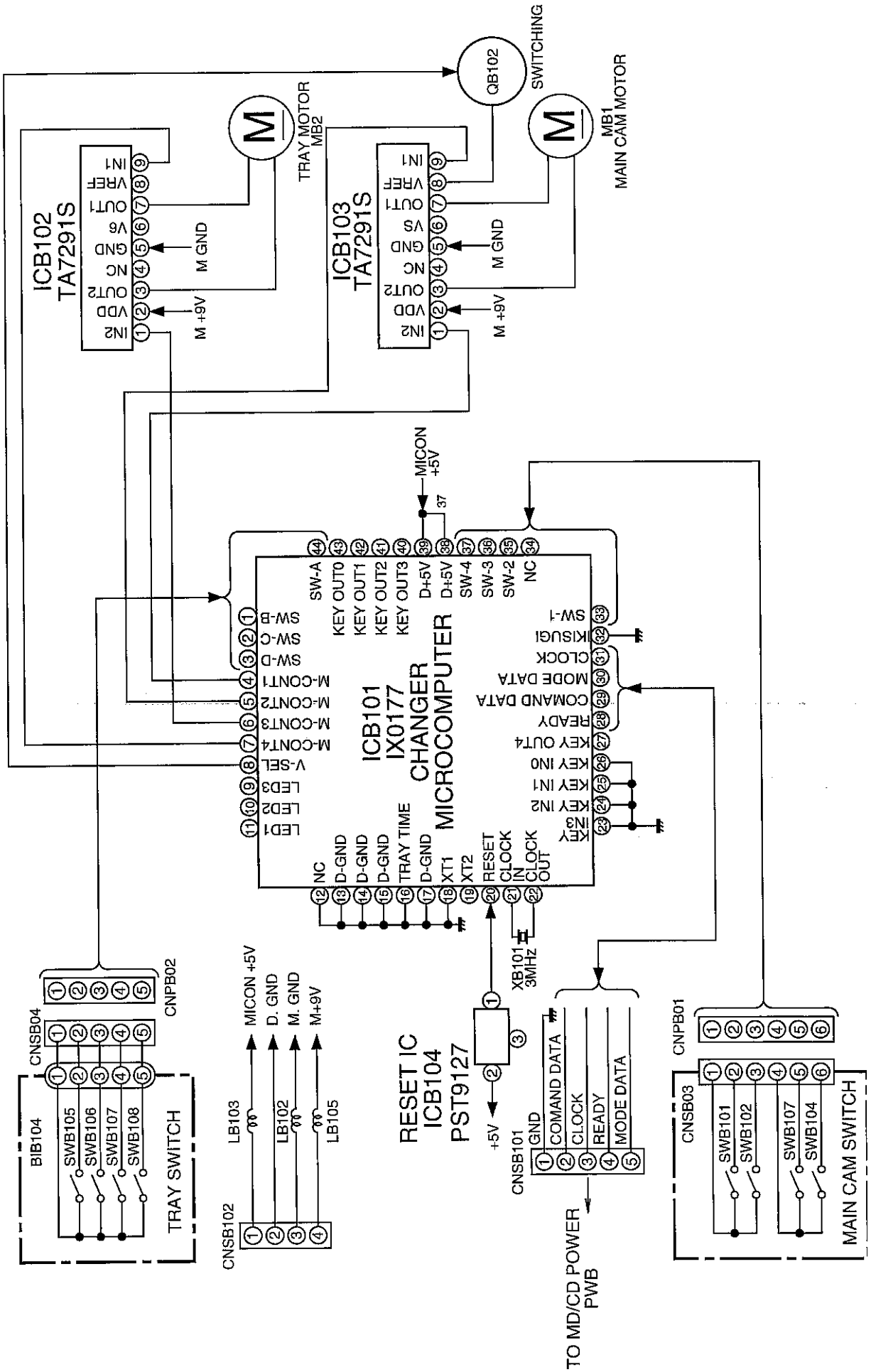


Figure 31 BLOCK DIAGRAM (1/9)

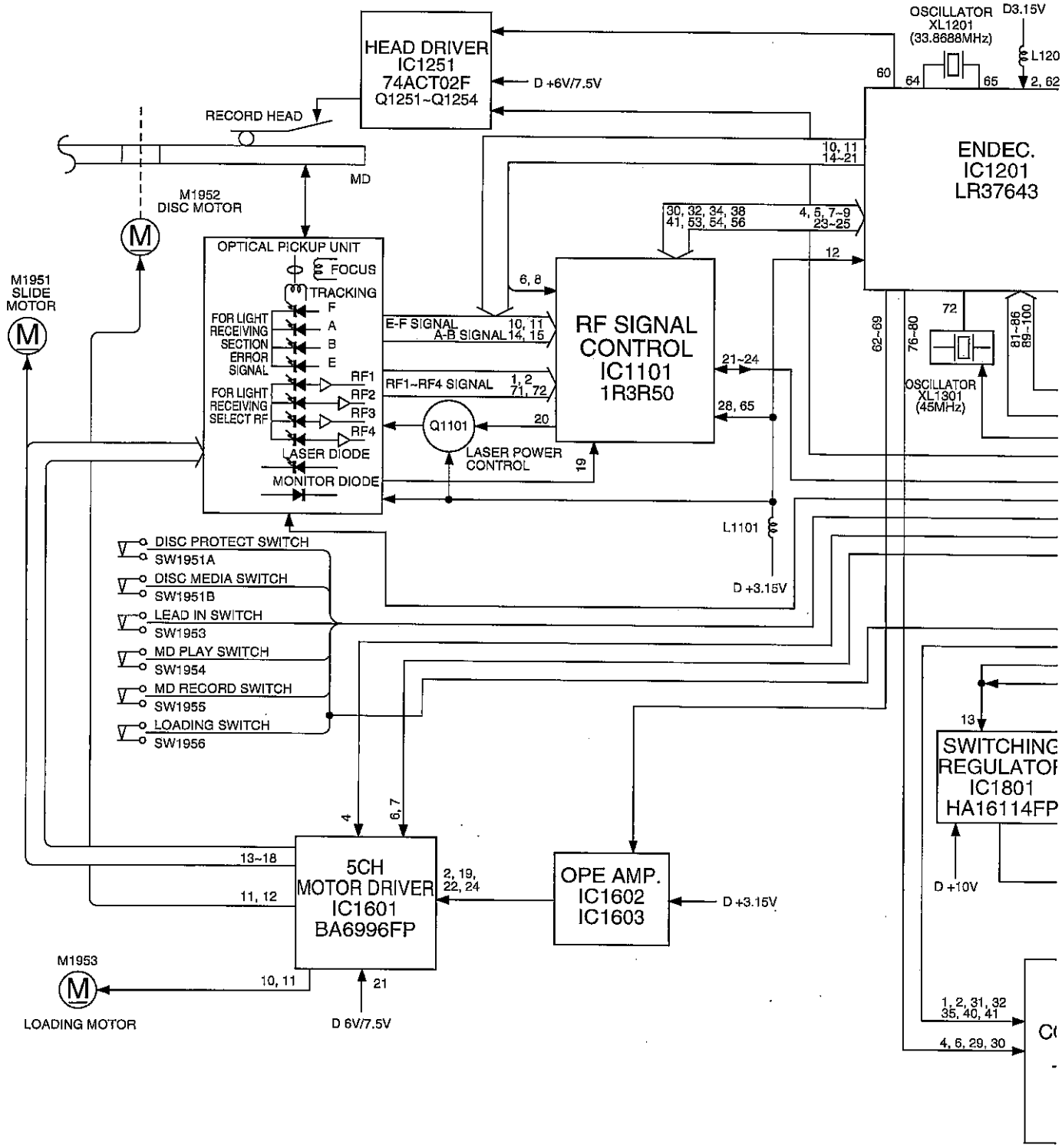


Figure 32 BLOCK DIAGRAM (2/9)

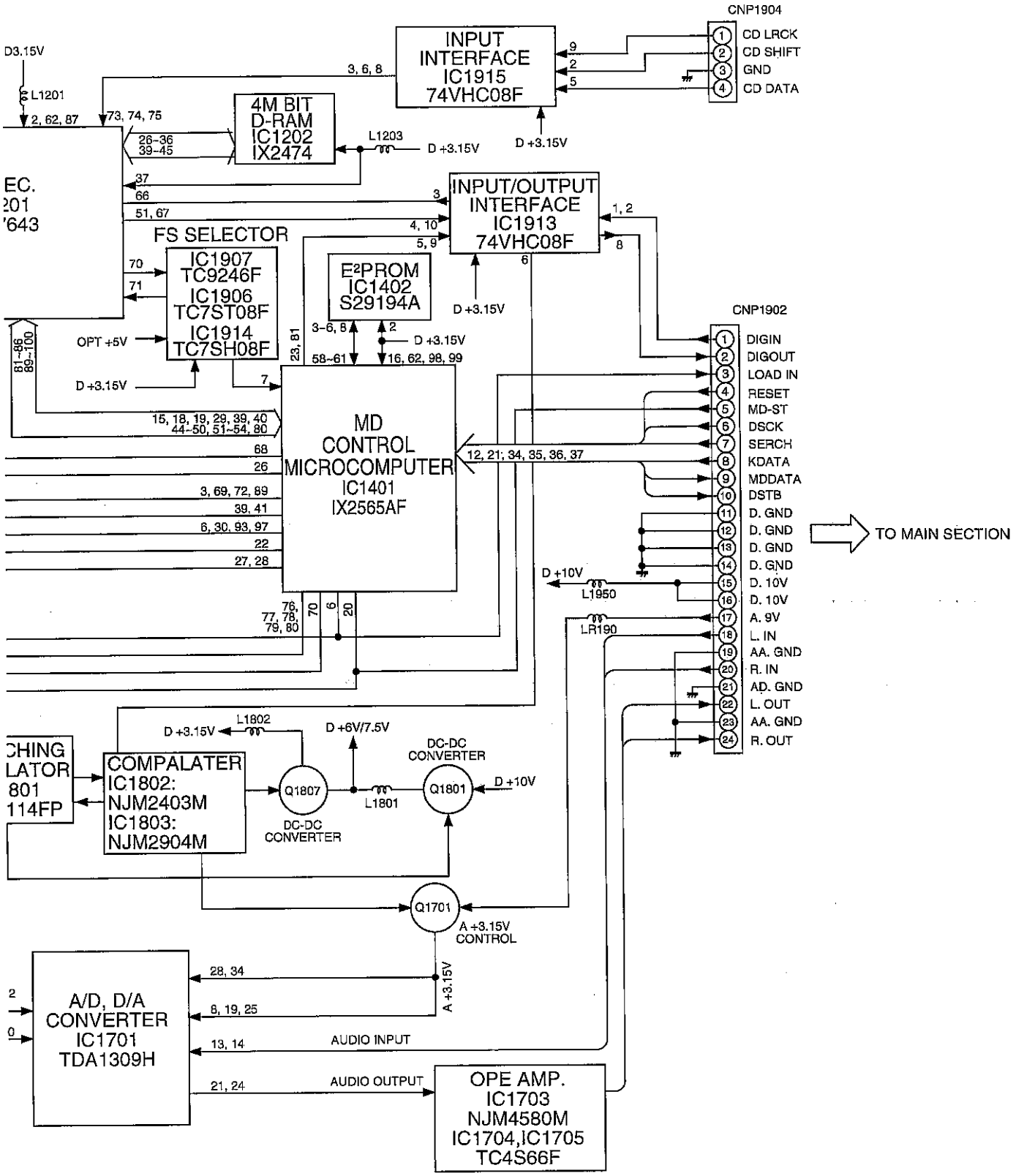


Figure 33 BLOCK DIAGRAM (3/9)

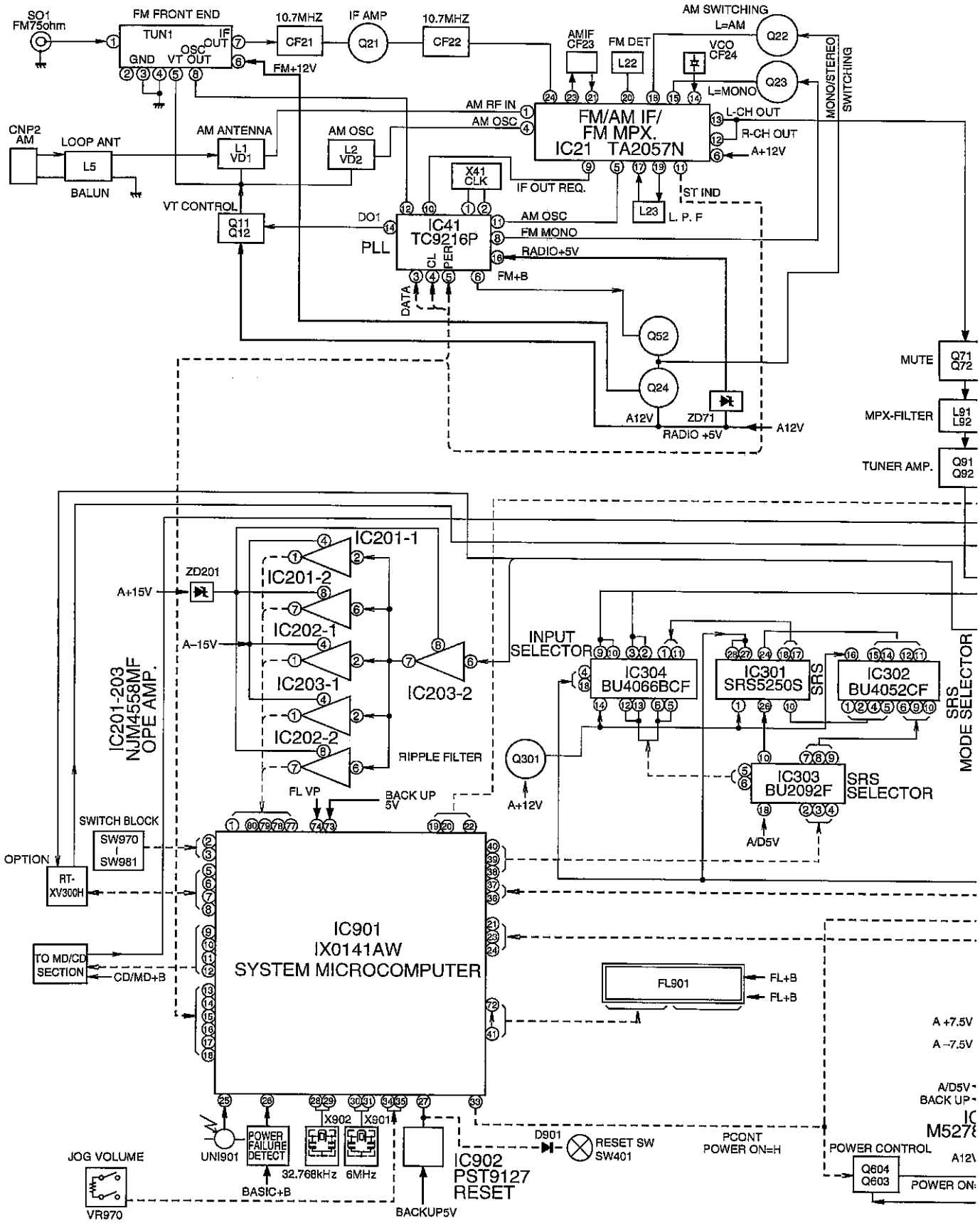


Figure 34 BLOCK DIAGRAM (4/9)

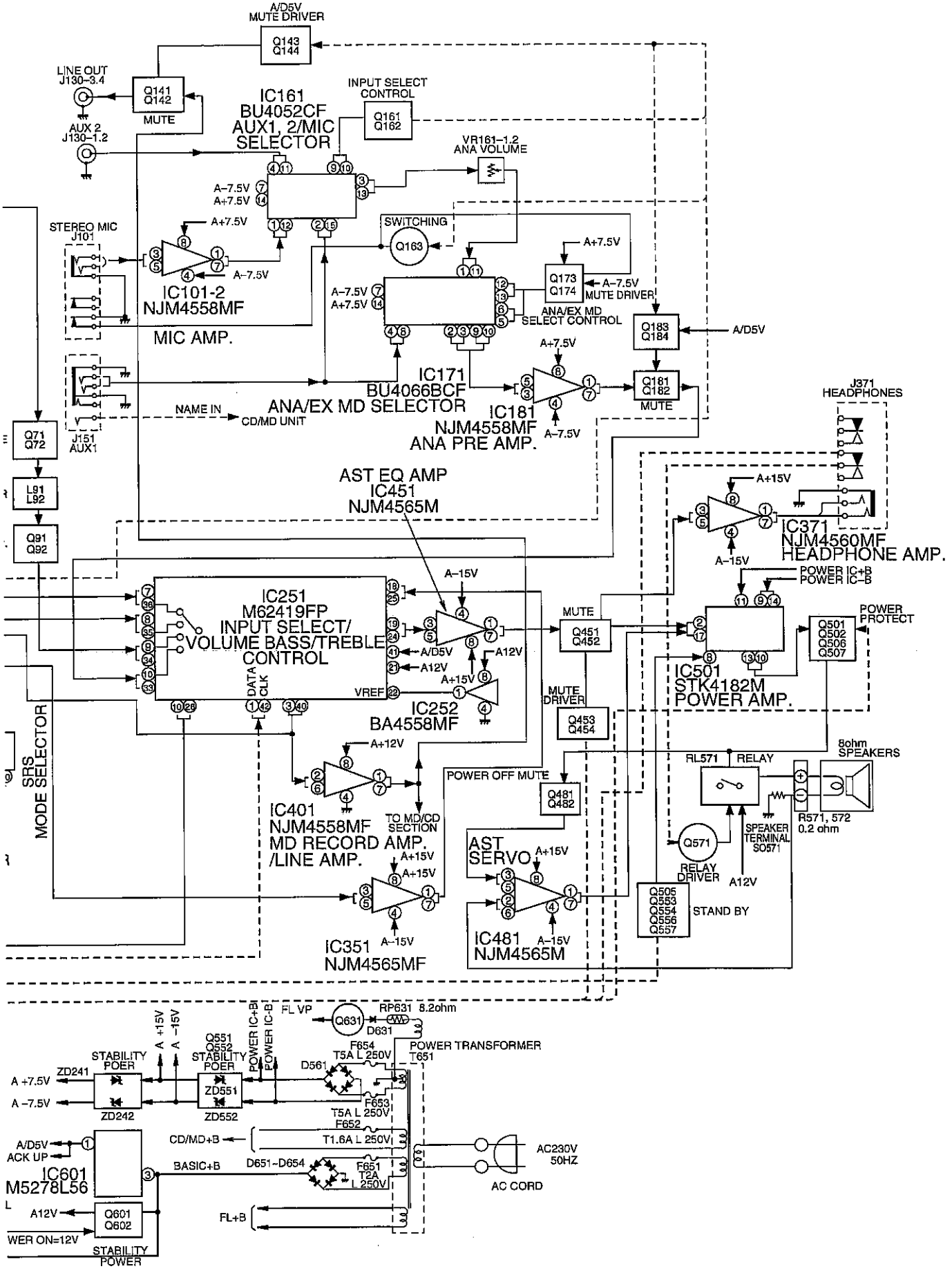


Figure 35 BLOCK DIAGRAM (5/9)

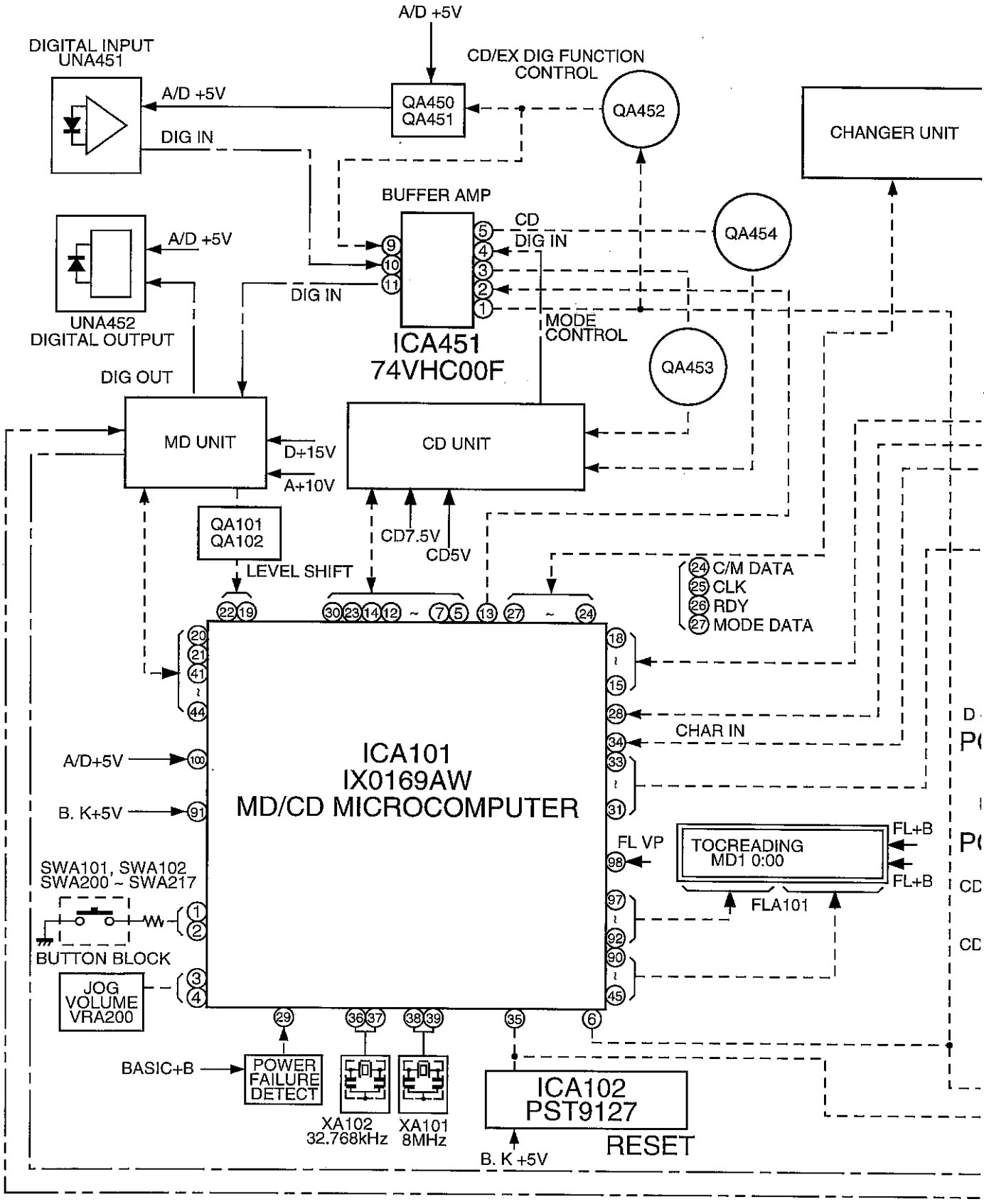


Figure 36 BLOCK DIAGRAM (6/9)

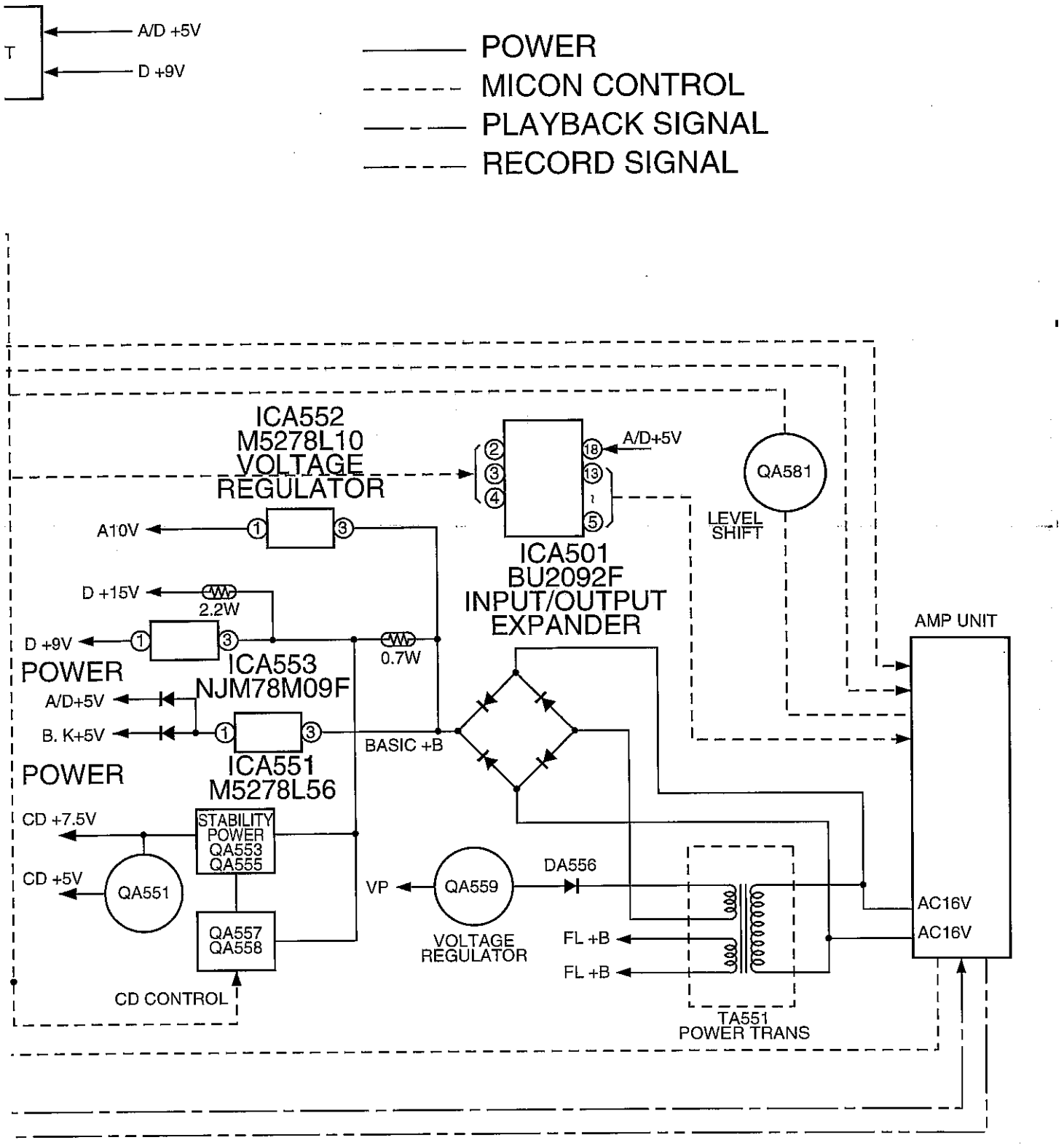


Figure 37 BLOCK DIAGRAM (7/9)

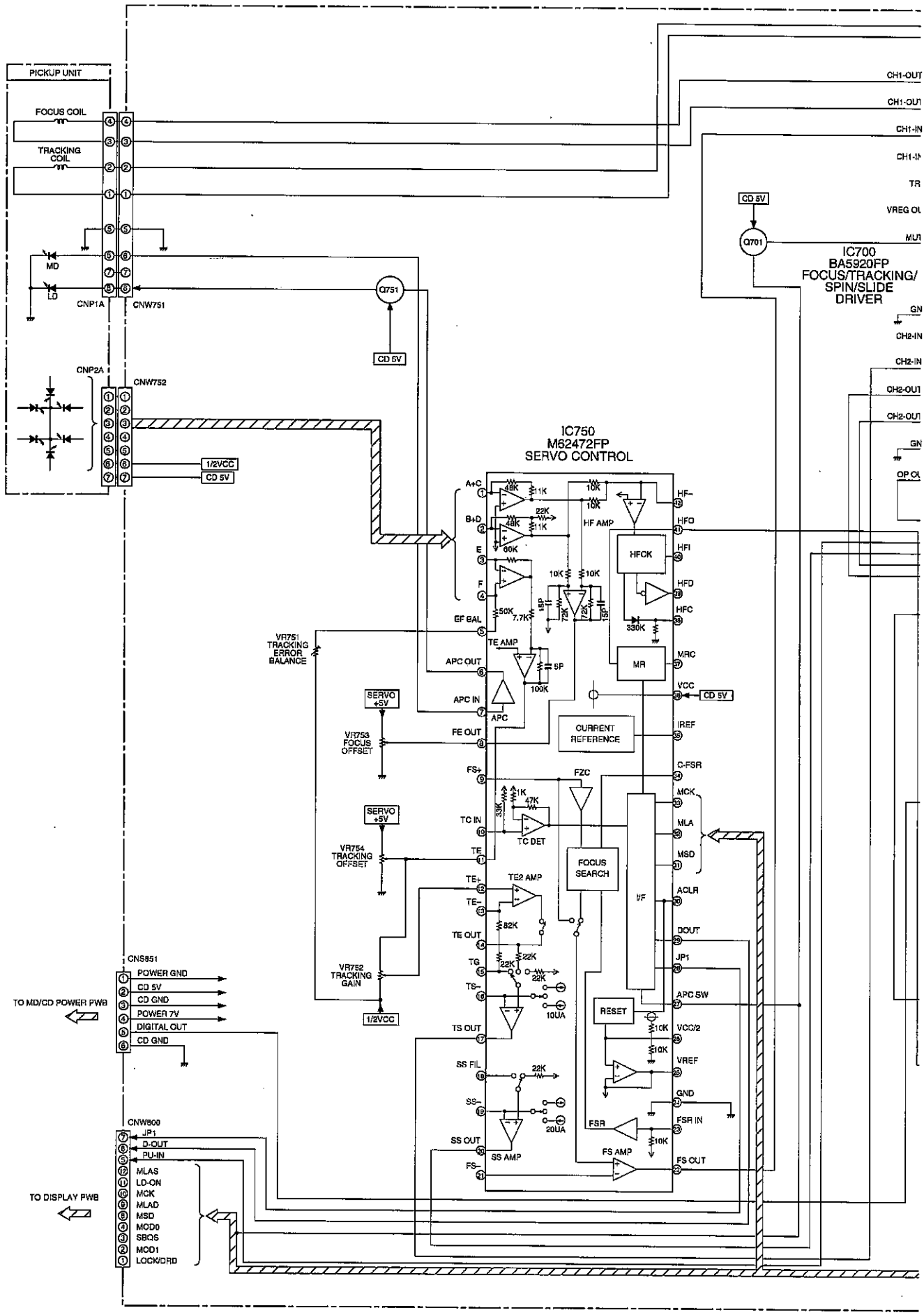


Figure 38 BLOCK DIAGRAM (8/9)

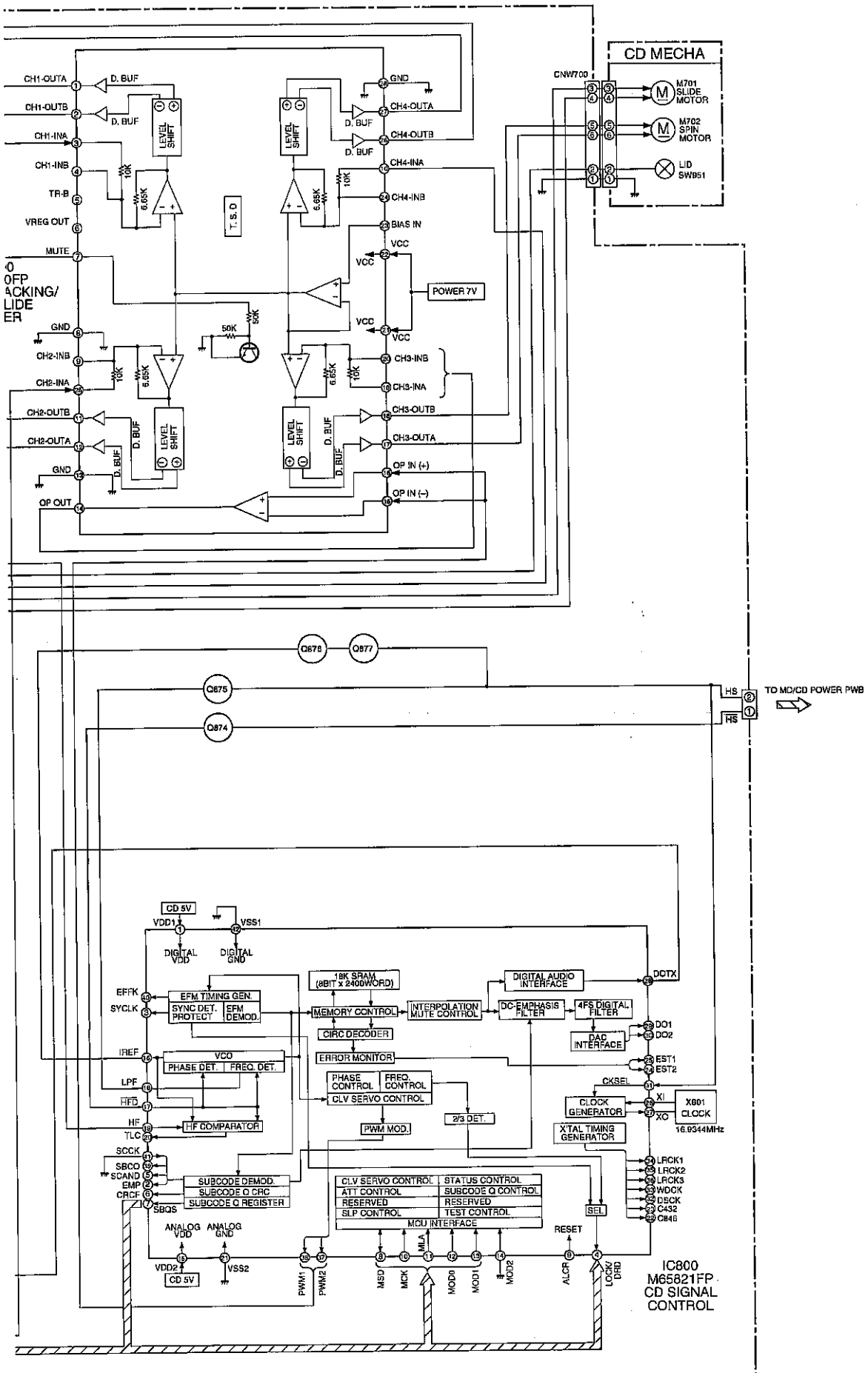
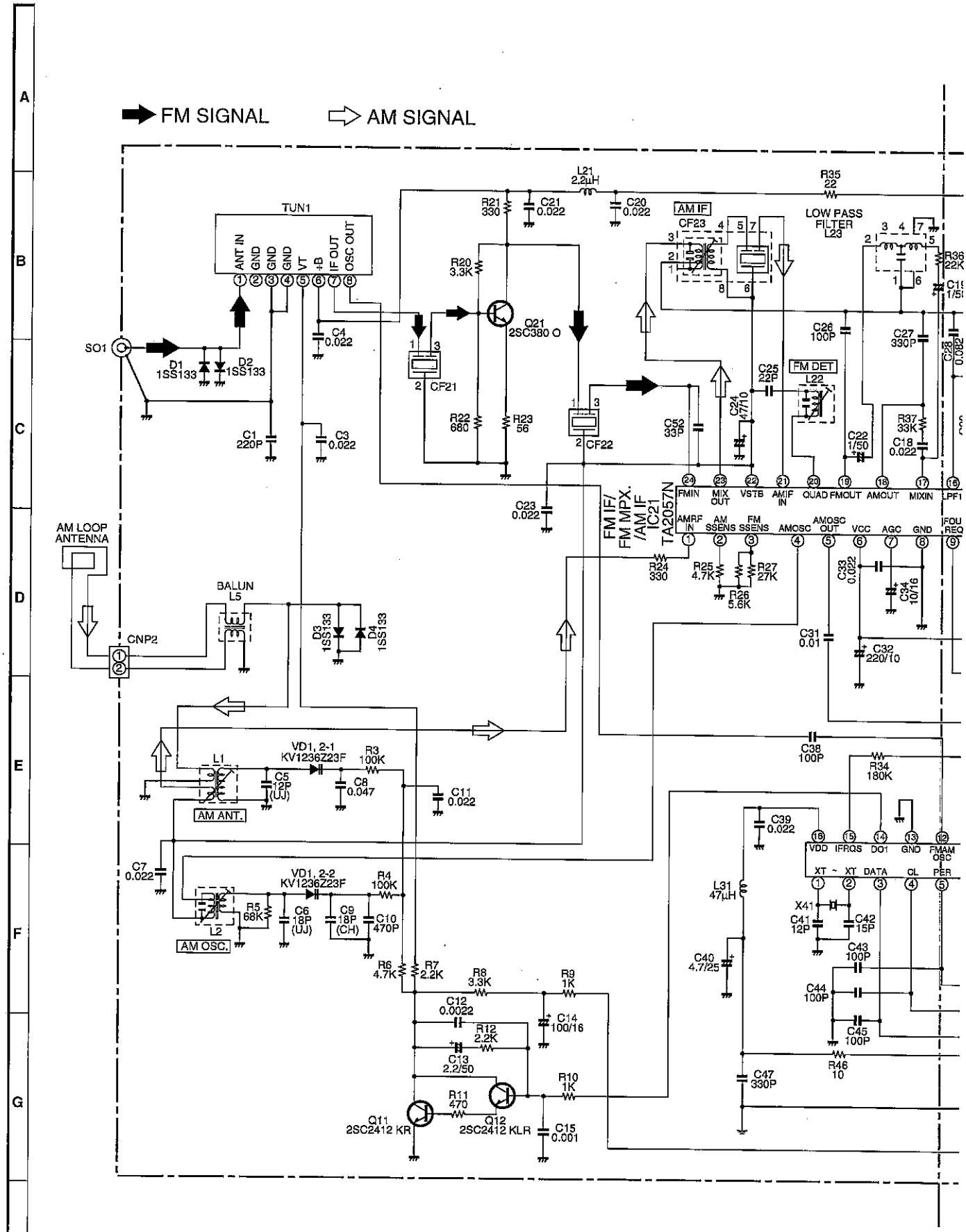
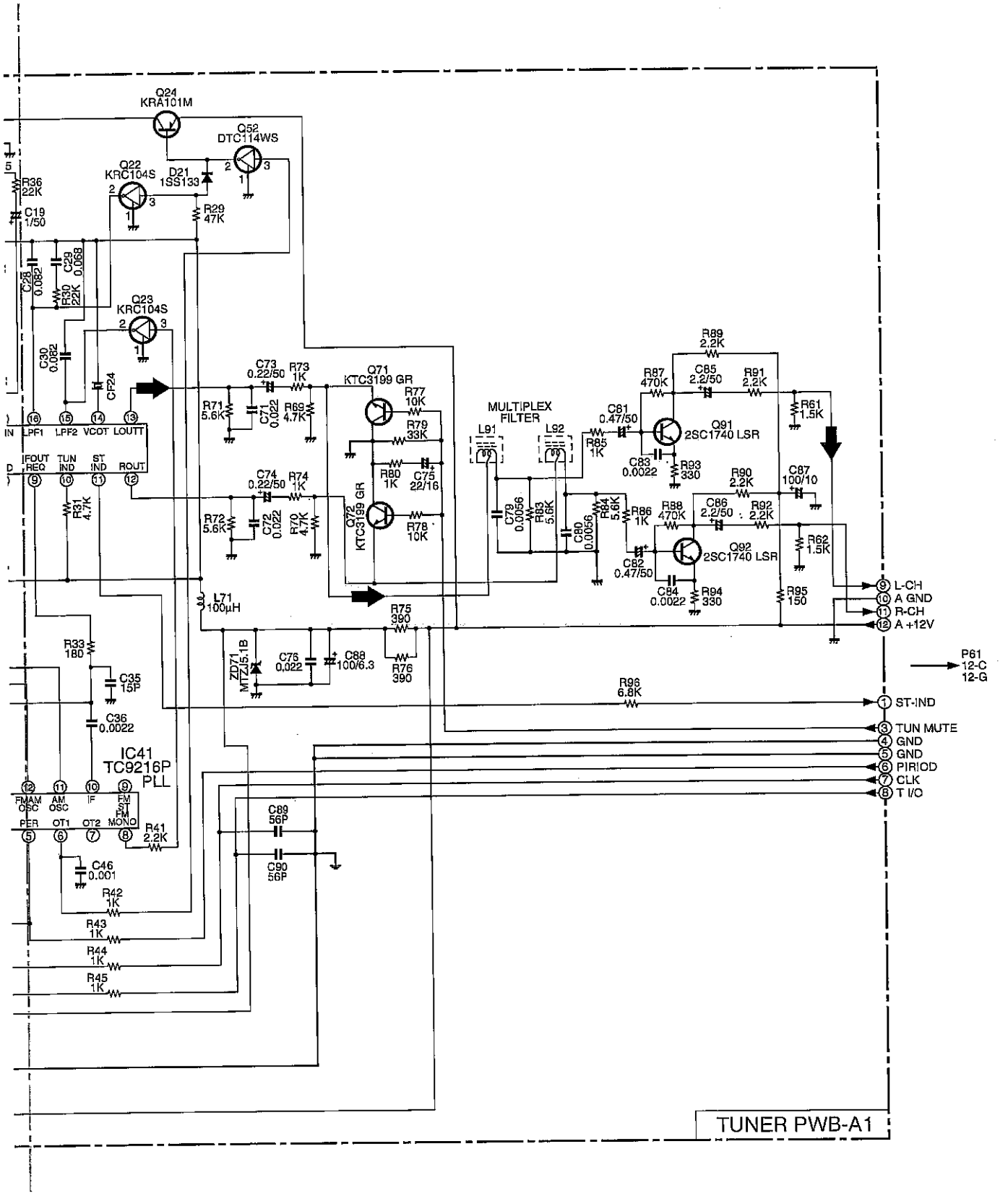


Figure 39 BLOCK DIAGRAM (9/9)



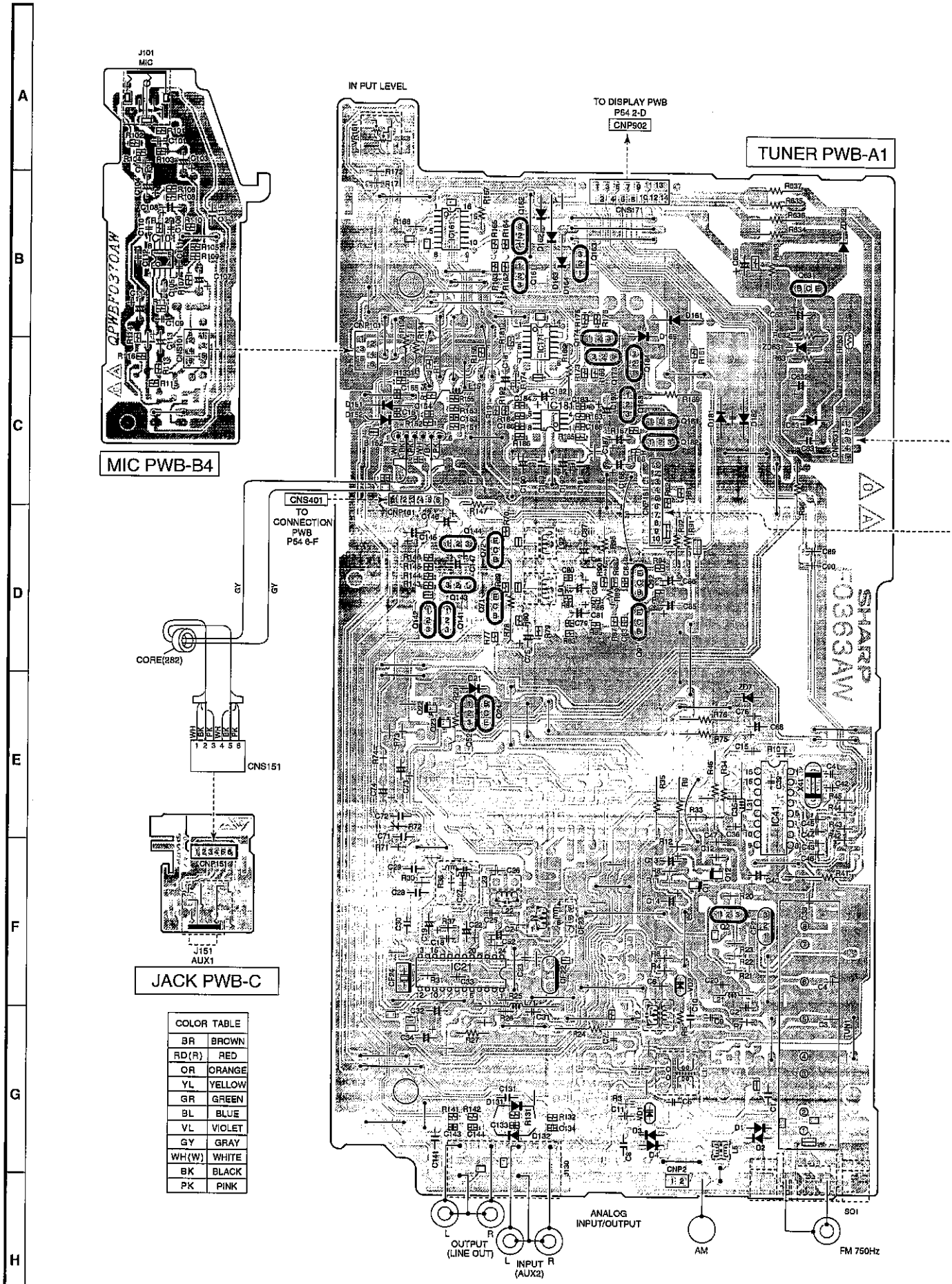
NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 40 SCHEMATIC DIAGRAM (1/26)



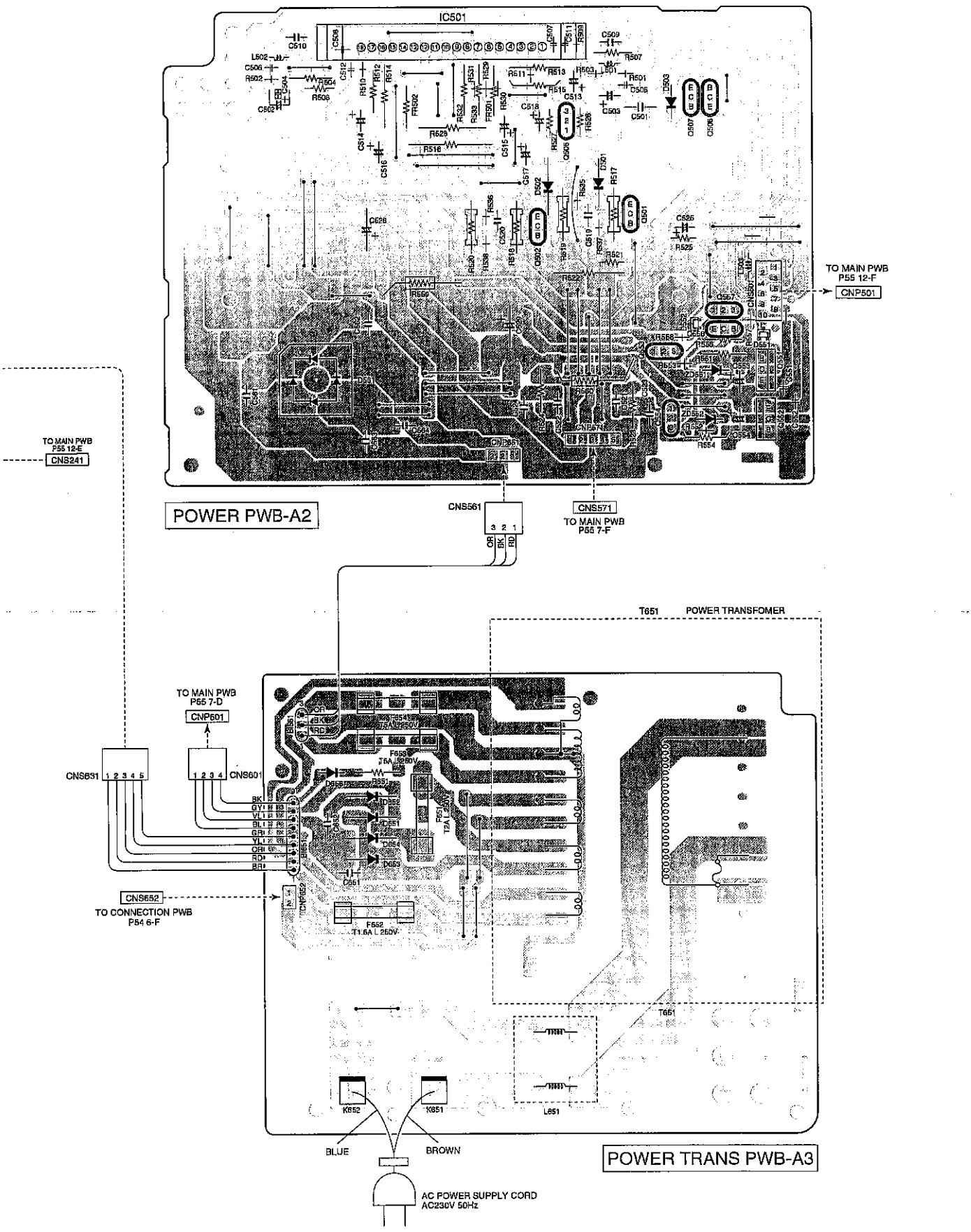
7	8	9	10	11	12

Figure 41 SCHEMATIC DIAGRAM (2/26)



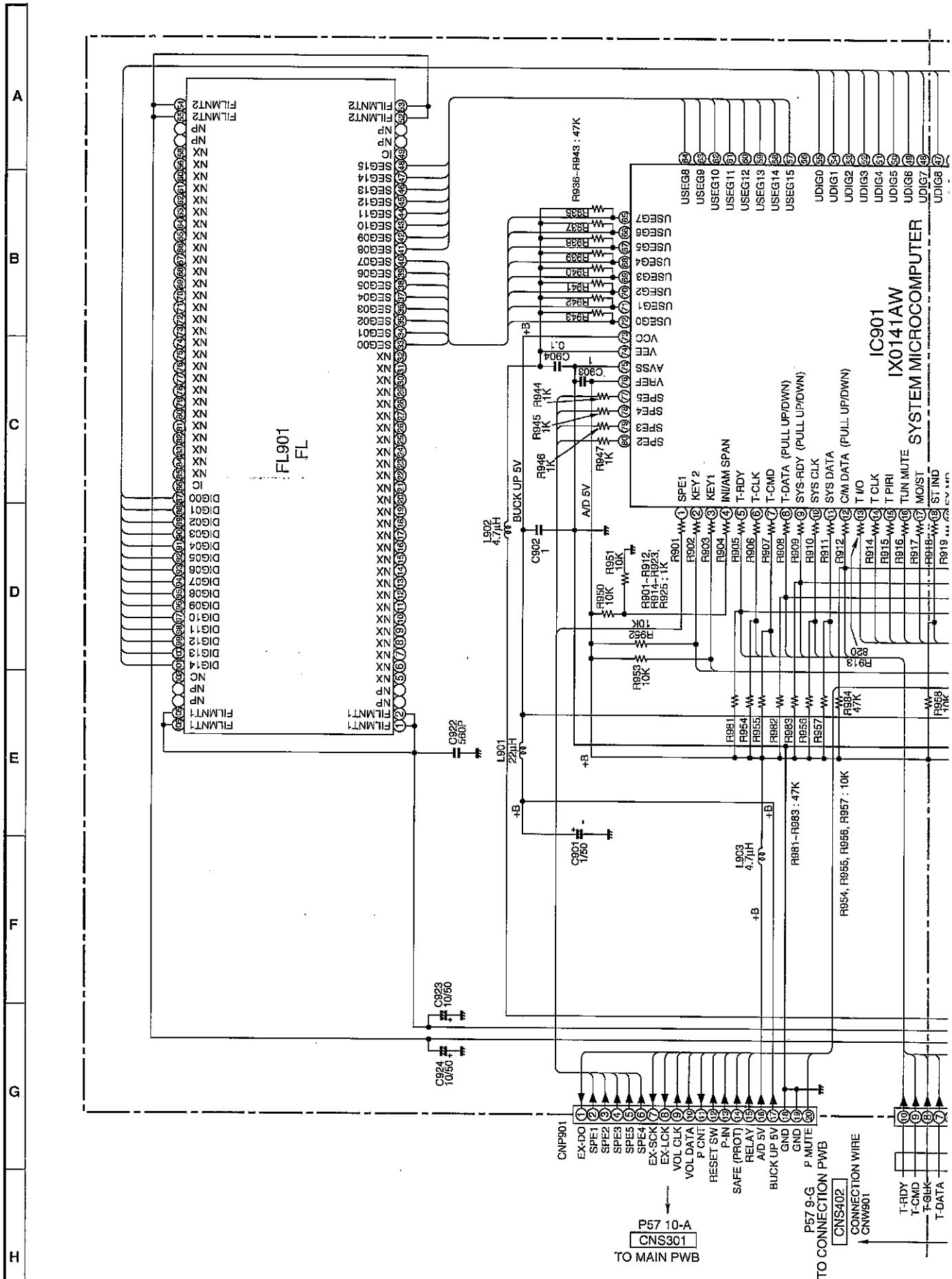
COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 42 WIRING SIDE OF P.W. BOARD (1/11)



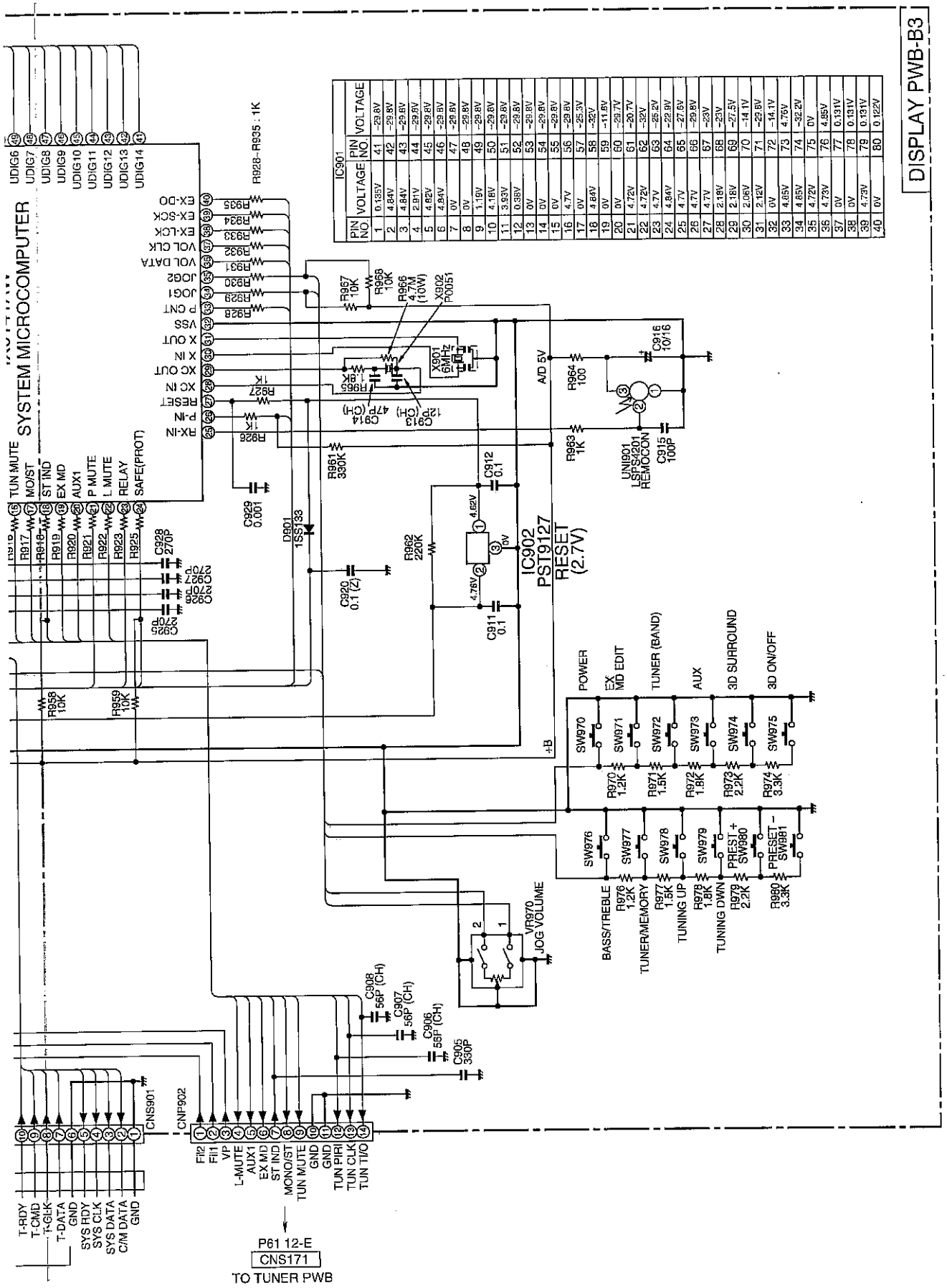
7	8	9	10	11	12

Figure 43 WIRING SIDE OF P.W. BOARD (2/11)



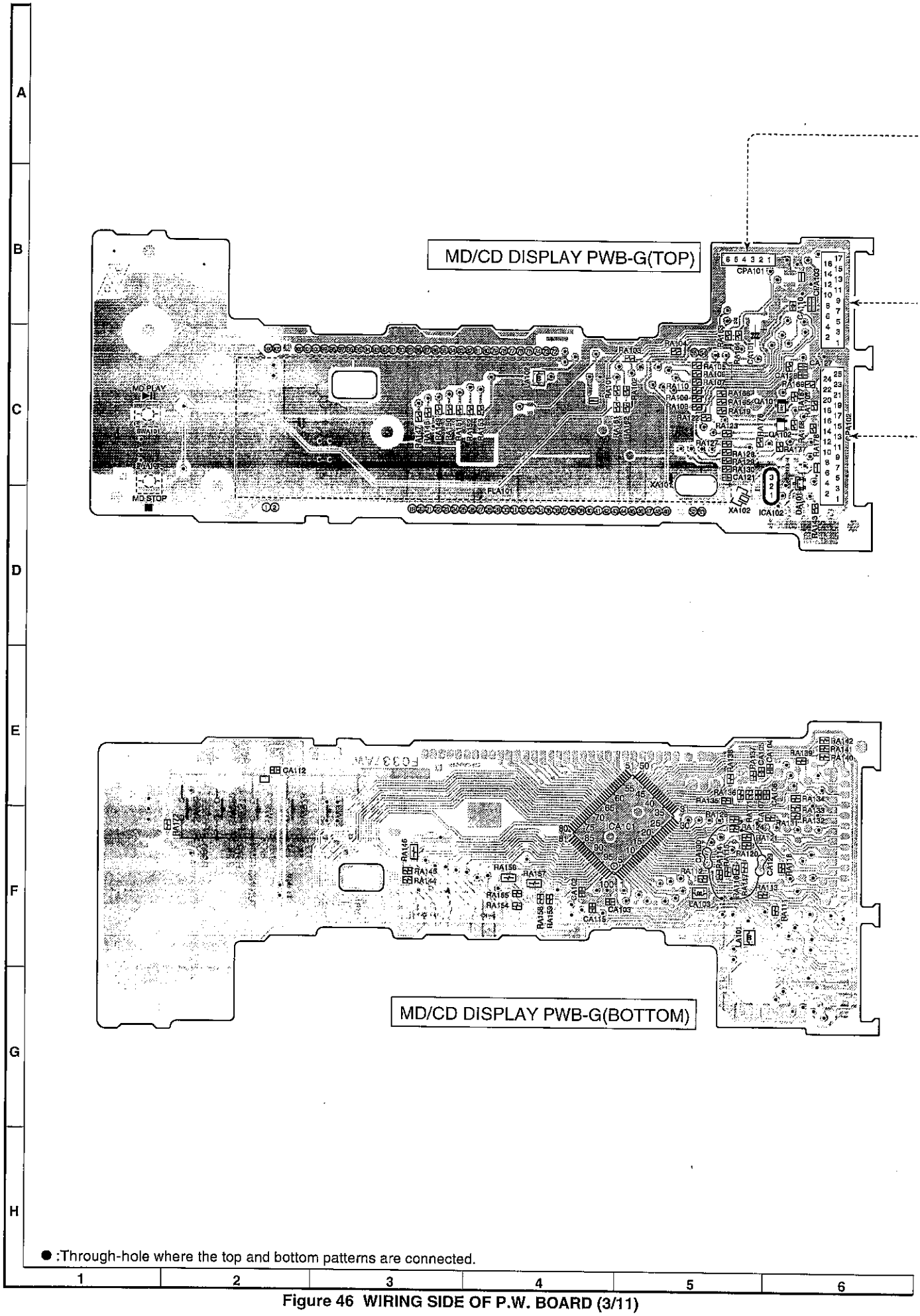
NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 44 SCHEMATIC DIAGRAM (3/26)



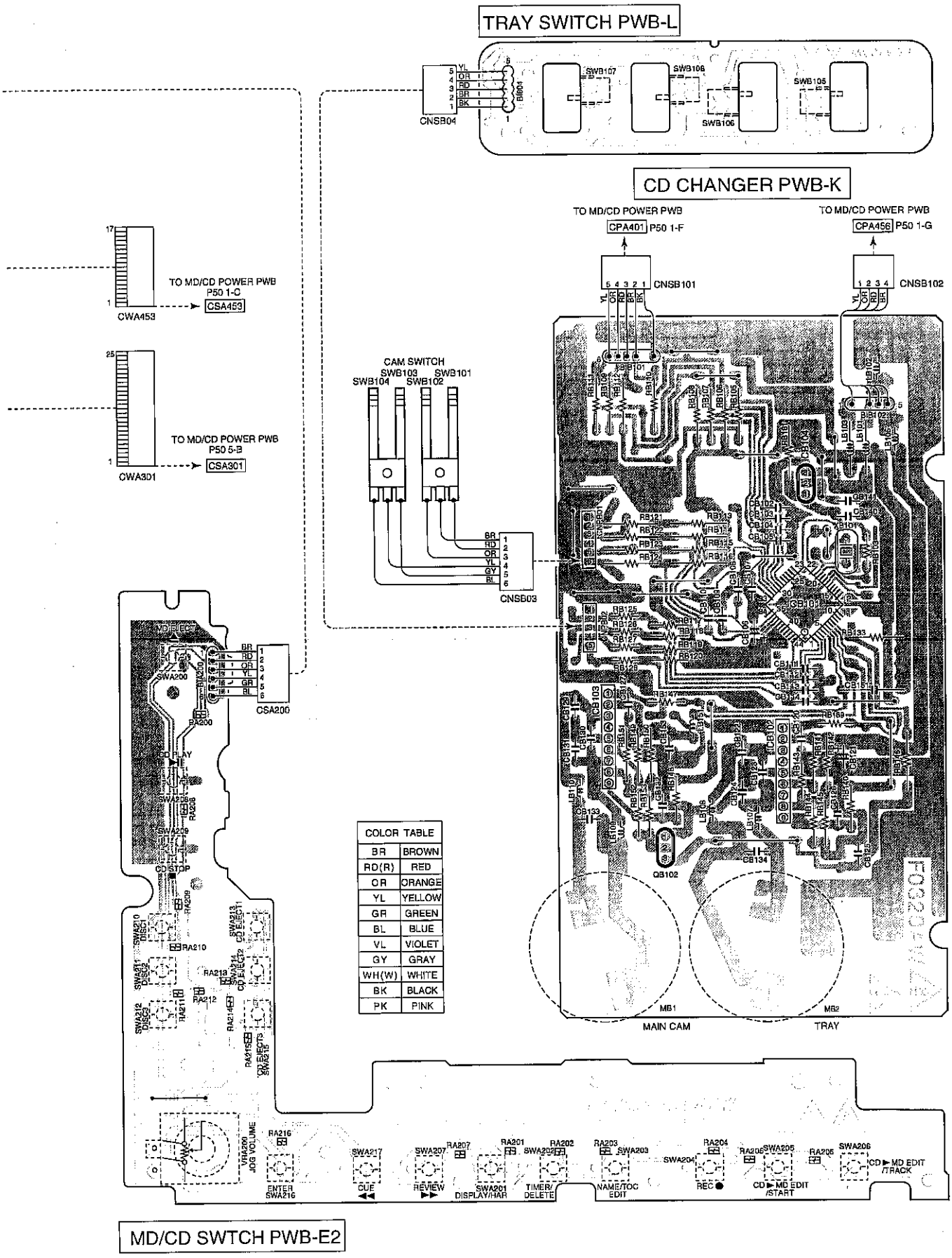
7	8	9	10	11	12

Figure 45 SCHEMATIC DIAGRAM (4/26)



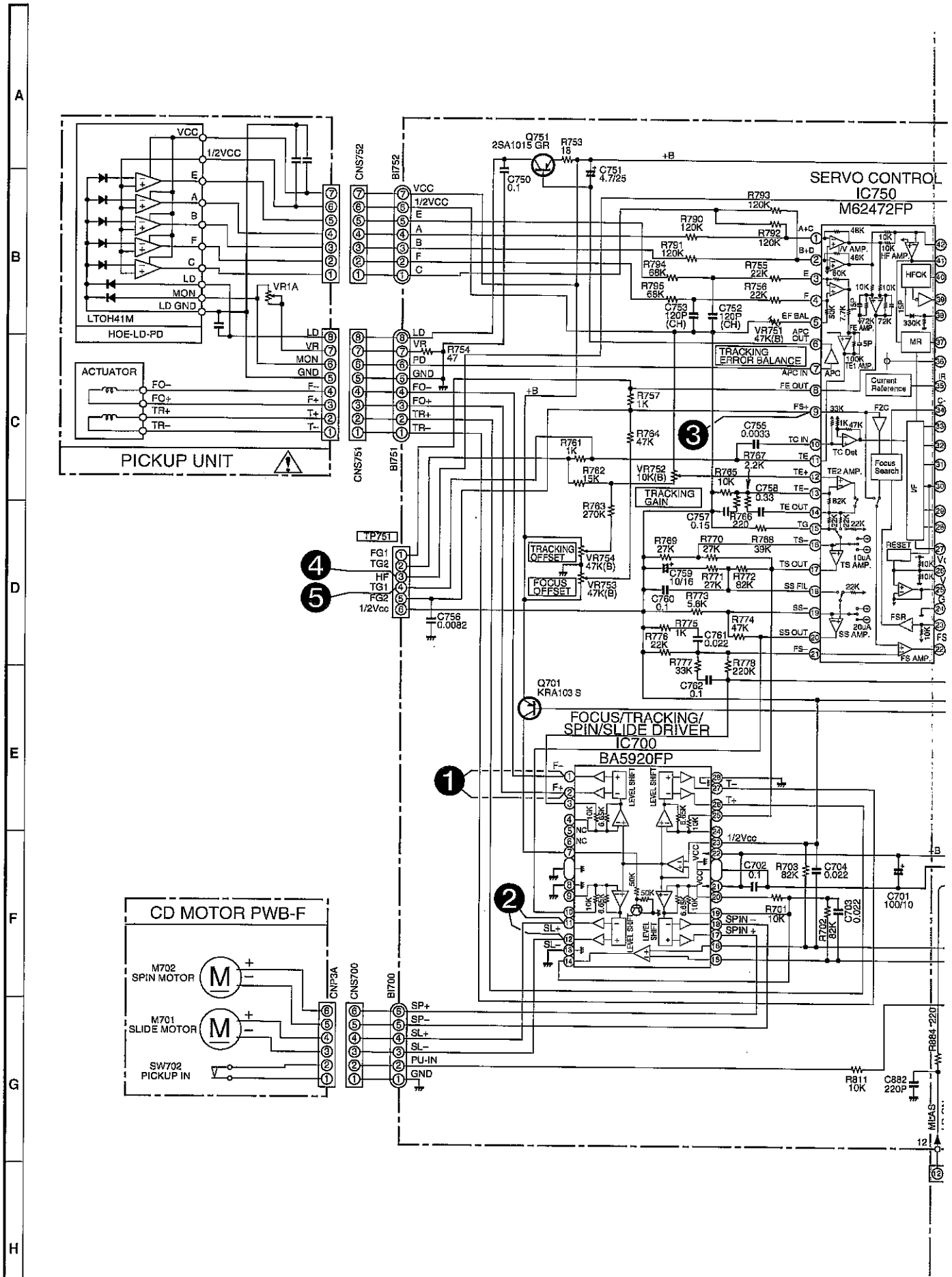
● :Through-hole where the top and bottom patterns are connected.

Figure 46 WIRING SIDE OF P.W. BOARD (3/11)



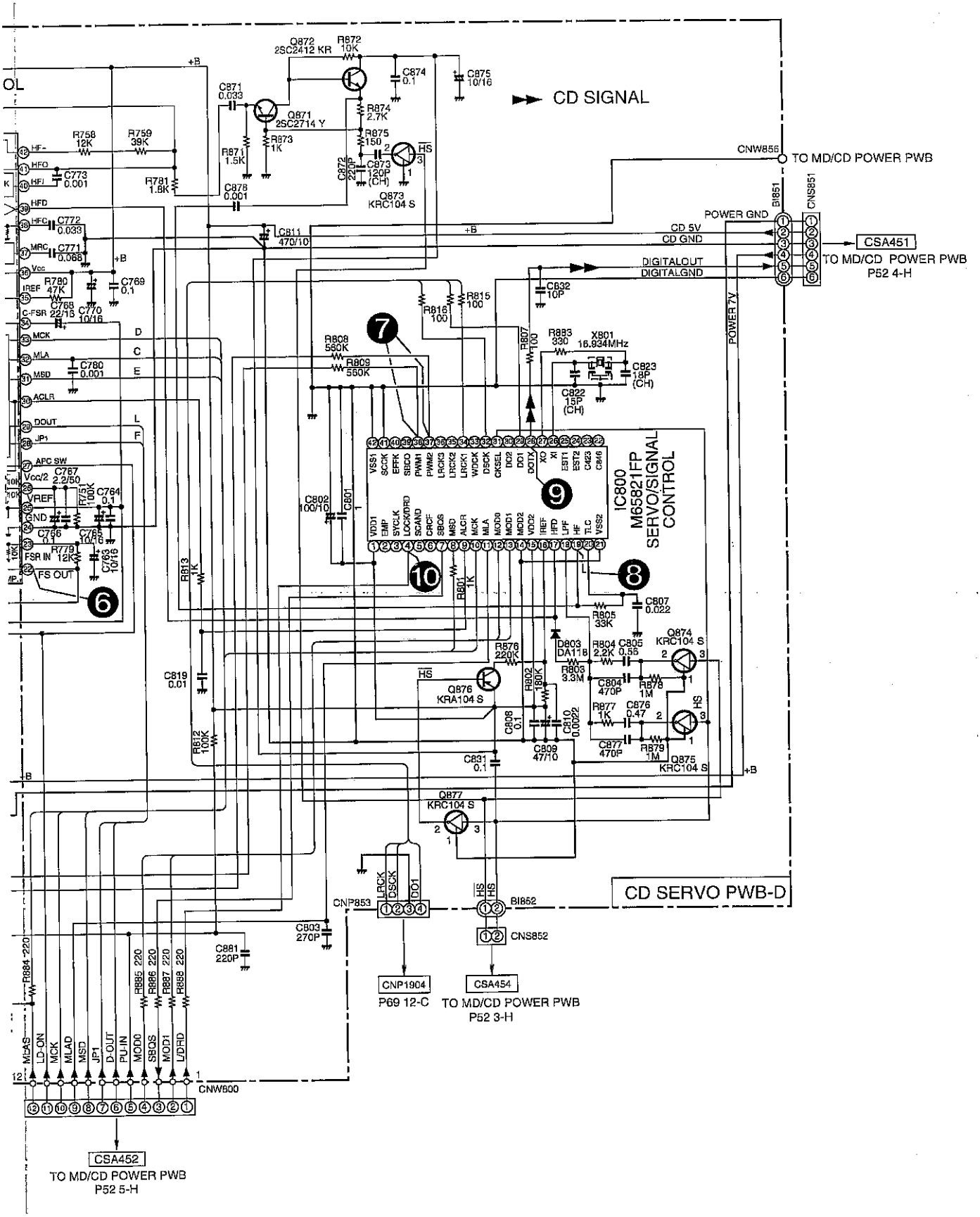
7	8	9	10	11	12

Figure 47 WIRING SIDE OF P.W. BOARD (4/11)



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 48 SCHEMATIC DIAGRAM (5/26)



The numbers ❶ to ❿ are waveform numbers shown in page 77.

7	8	9	10	11	12

Figure 49 SCHEMATIC DIAGRAM (6/26)

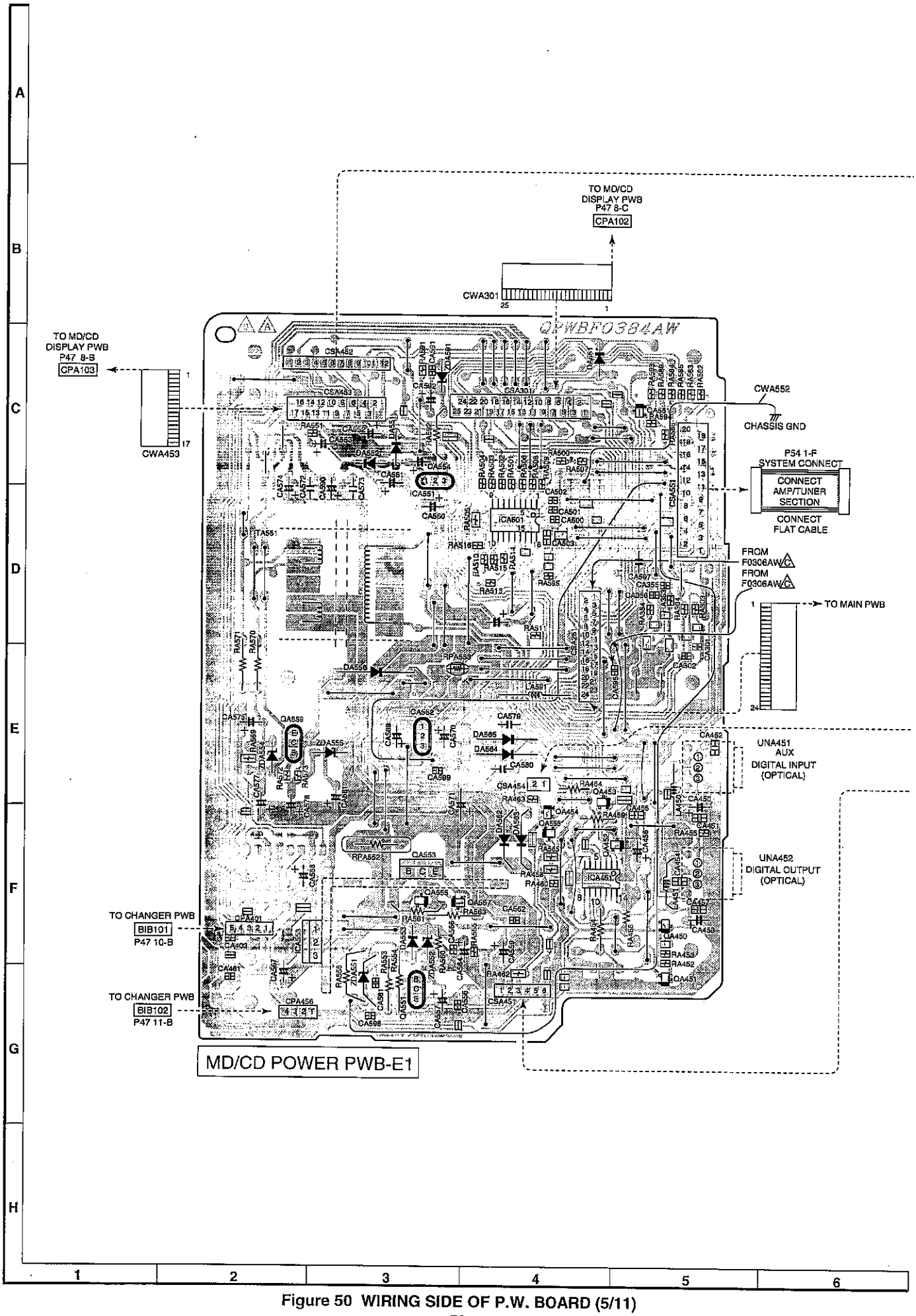
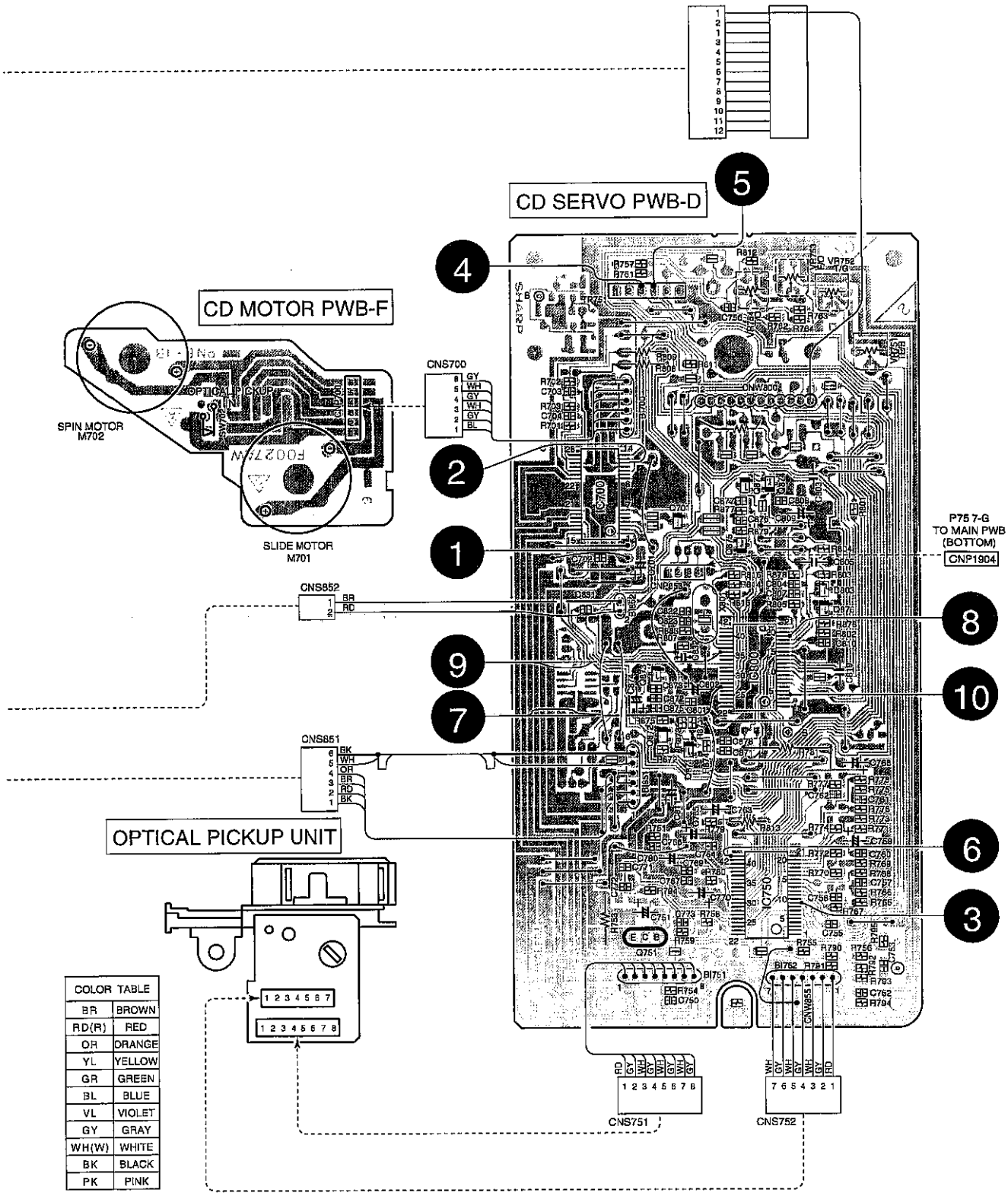


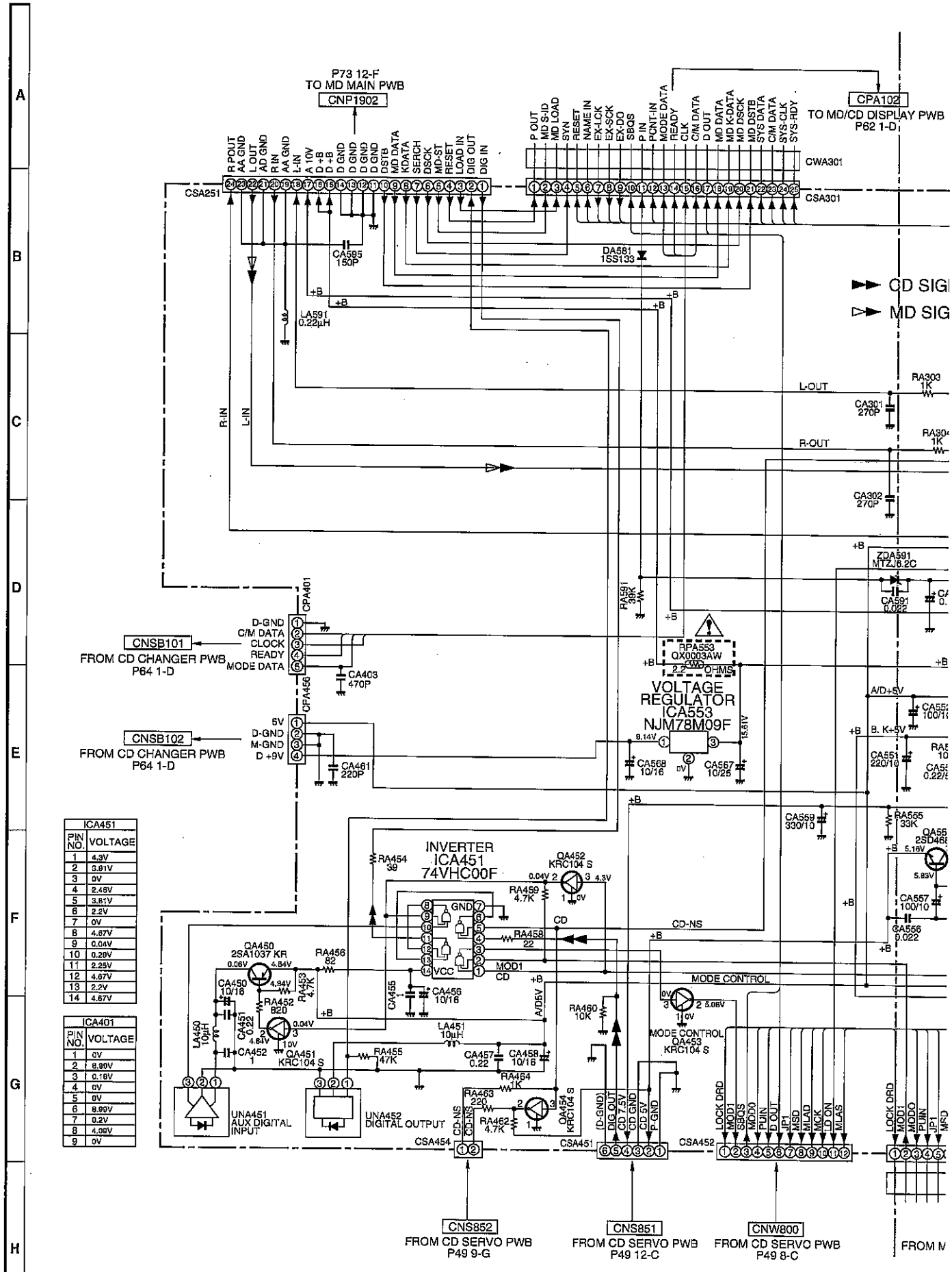
Figure 50 WIRING SIDE OF P.W. BOARD (5/11)



The numbers ❶ to ❿ are waveform numbers shown in page 75.

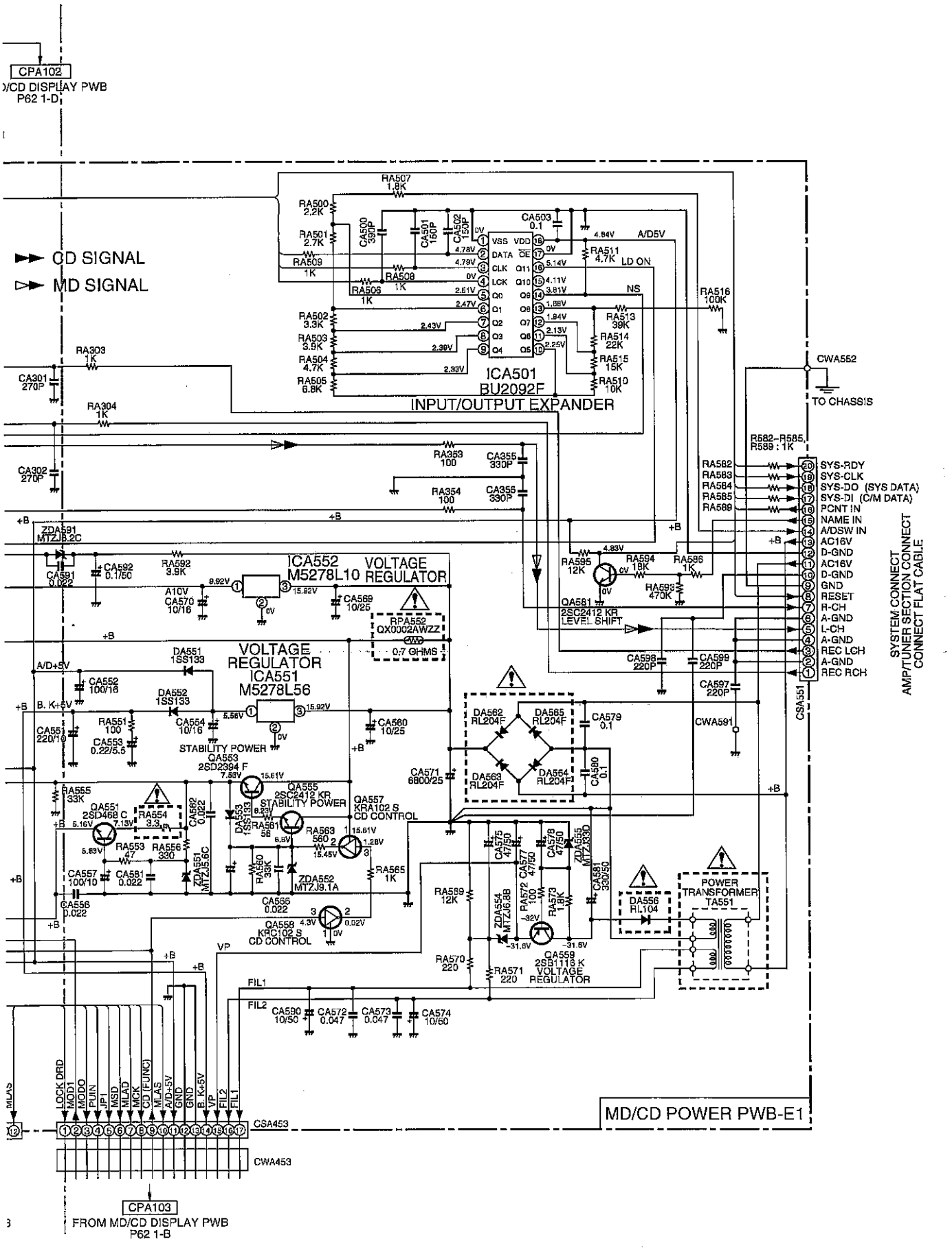
7	8	9	10	11	12

Figure 51 WIRING SIDE OF P.W. BOARD (6/11)



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 52 SCHEMATIC DIAGRAM (7/26)



7	8	9	10	11	12

Figure 53 SCHEMATIC DIAGRAM (8/26)

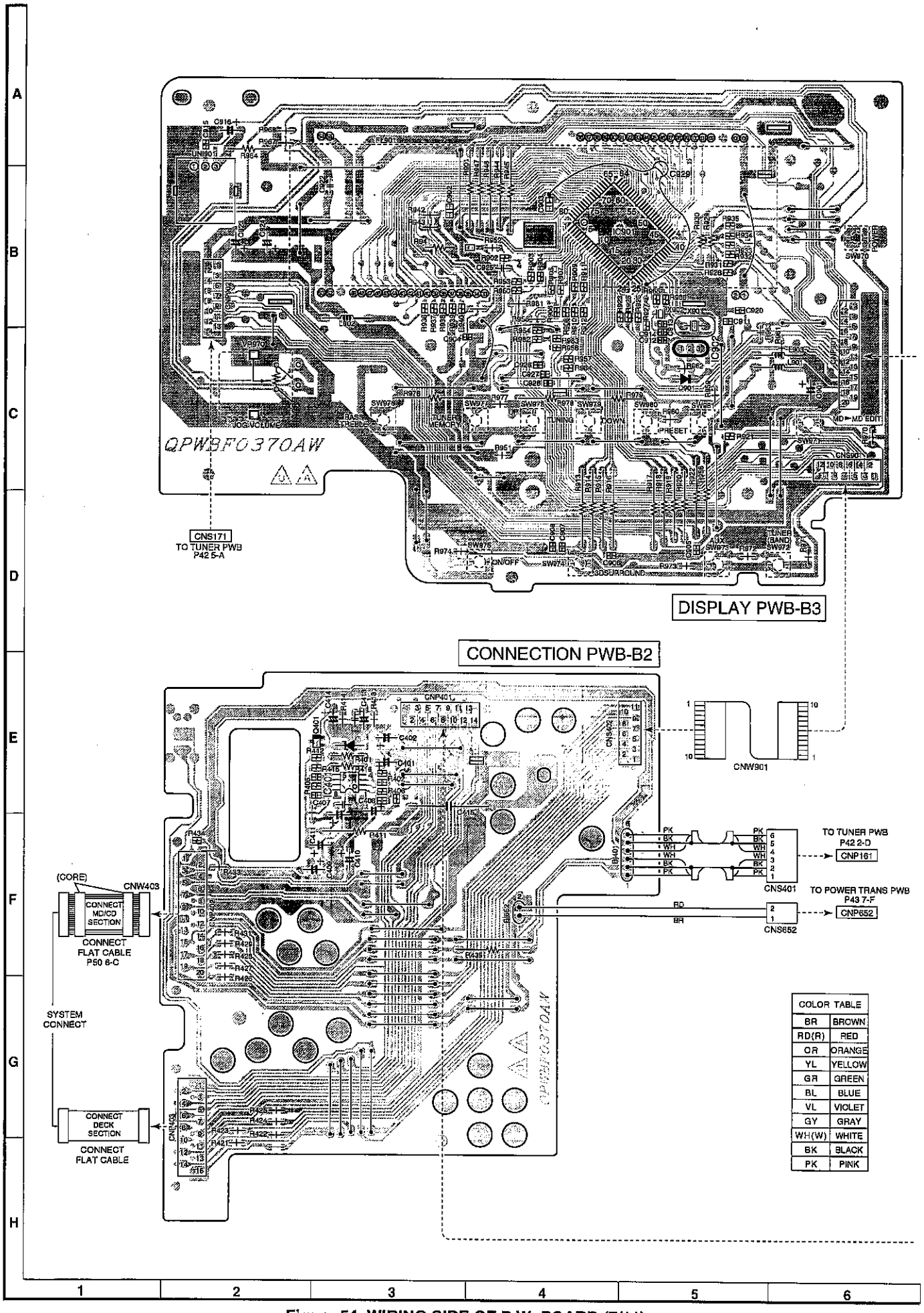
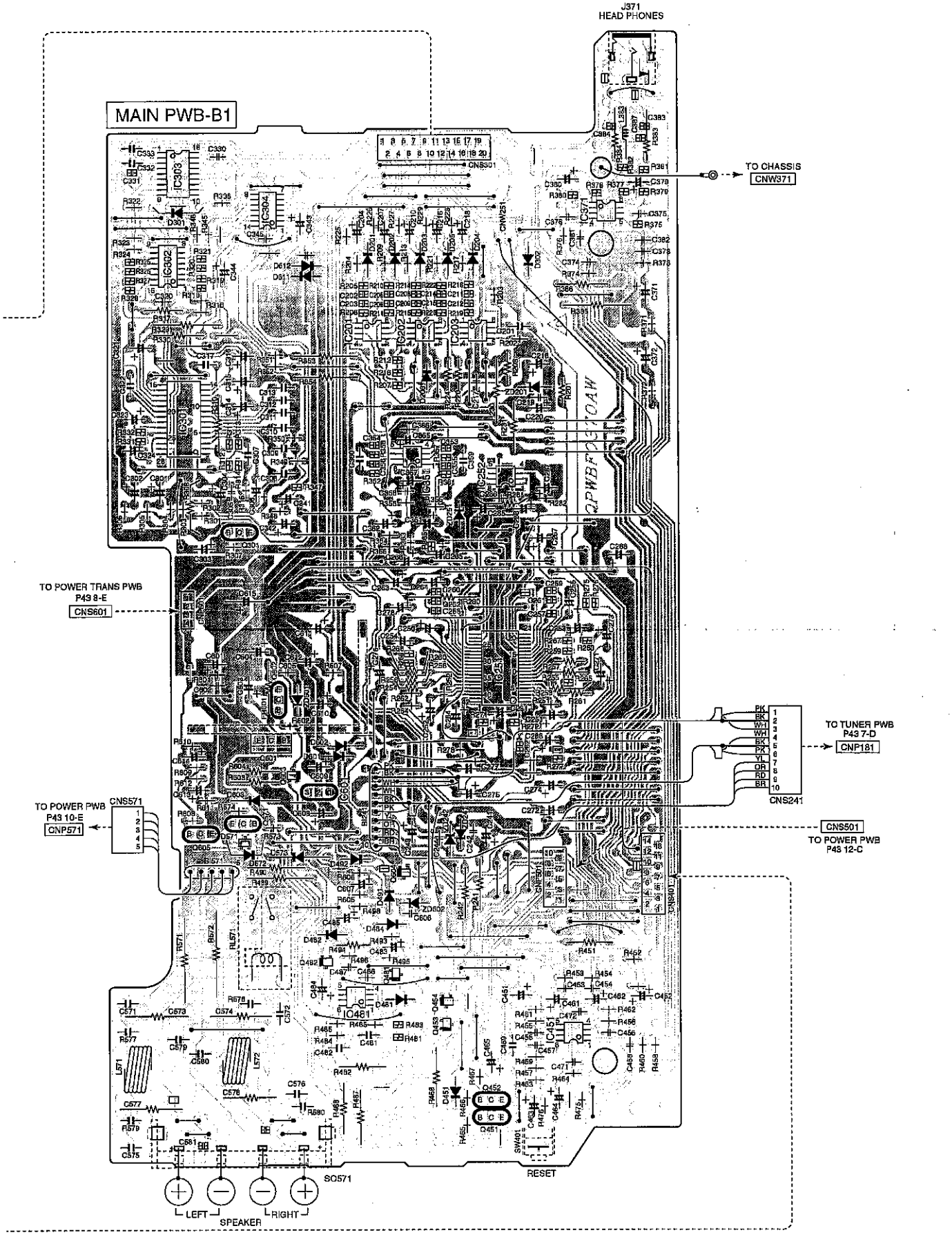
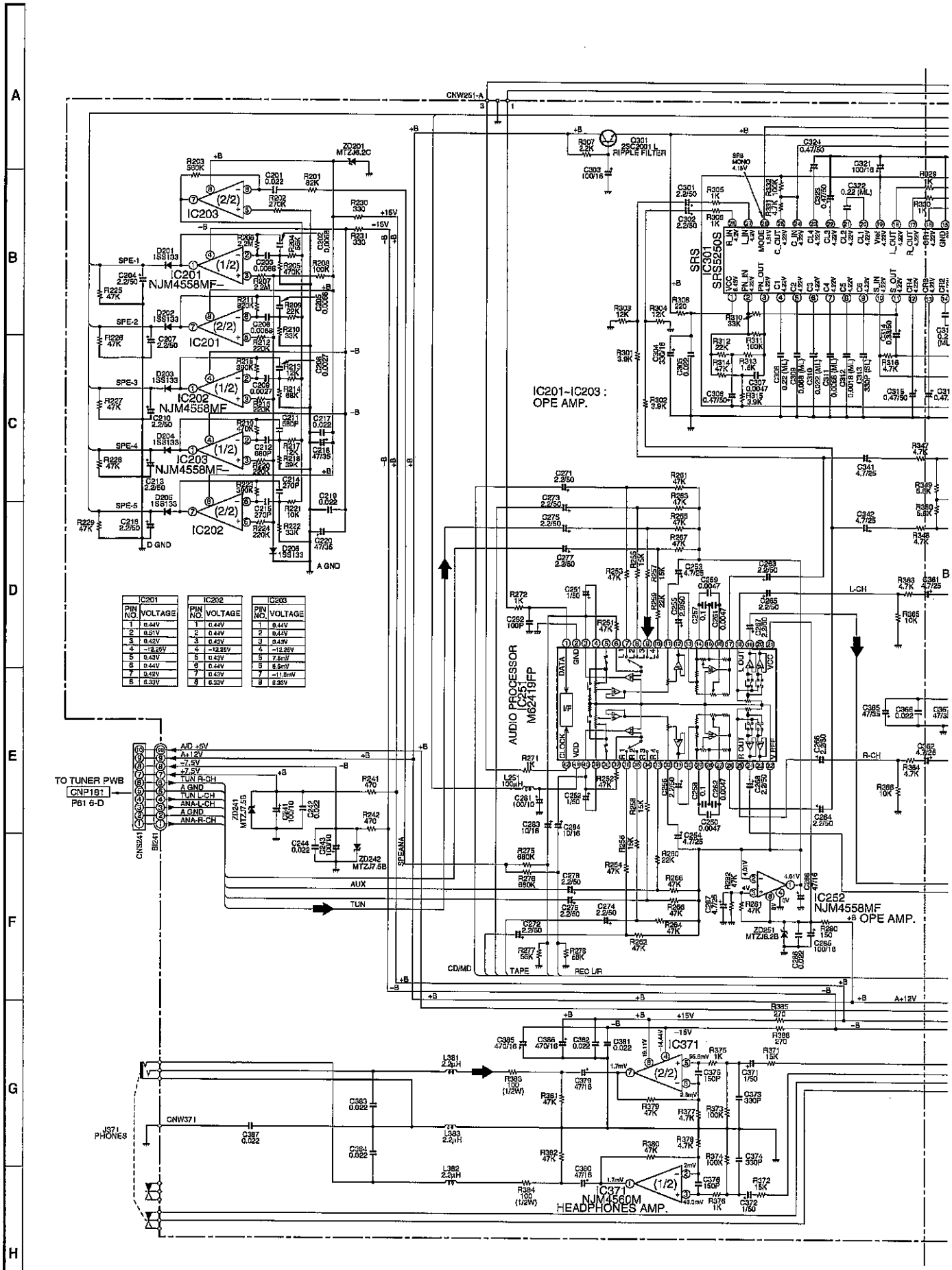


Figure 54 WIRING SIDE OF P.W. BOARD (7/11)



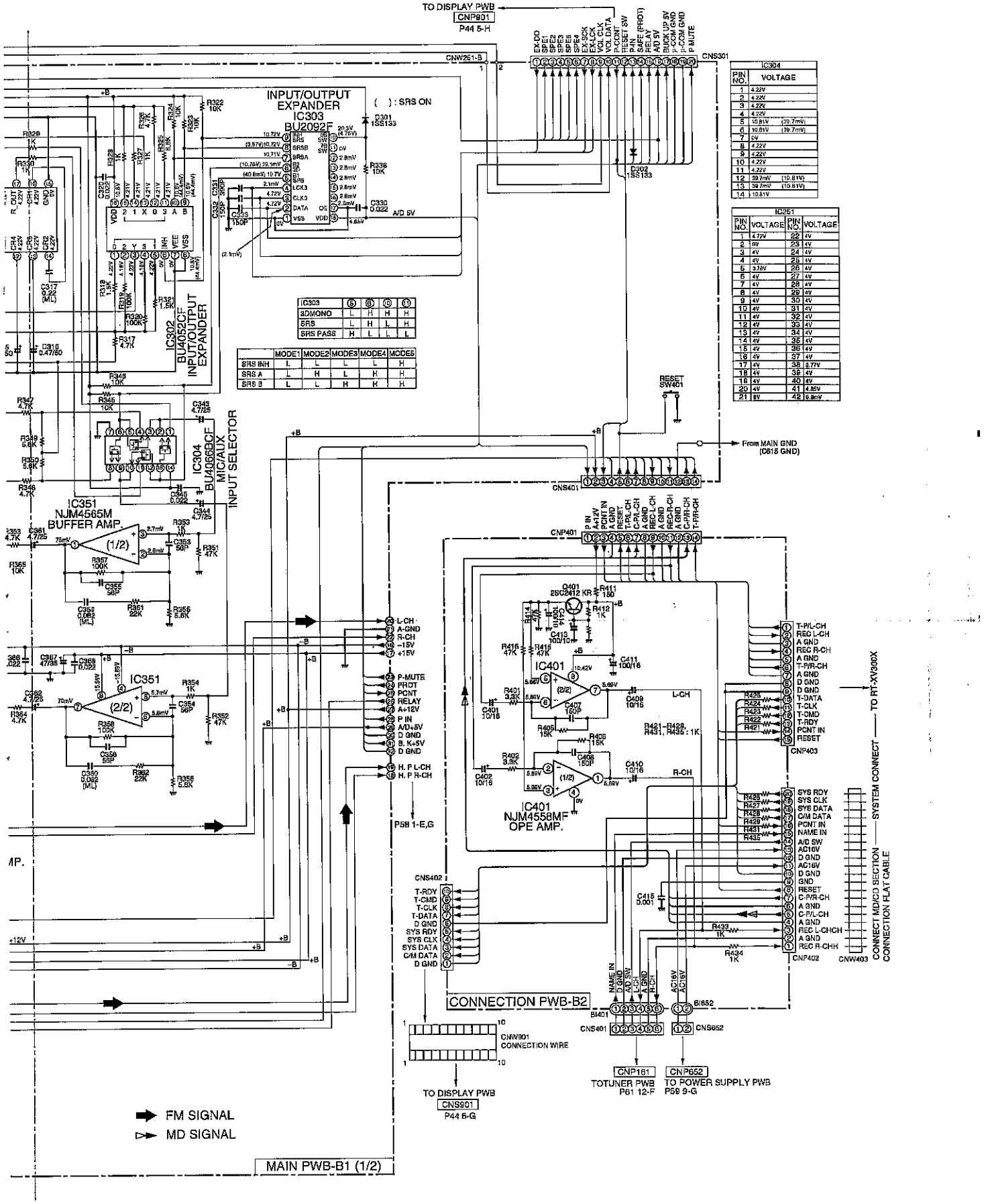
7	8	9	10	11	12

Figure 55 WIRING SIDE OF P.W. BOARD (8/11)



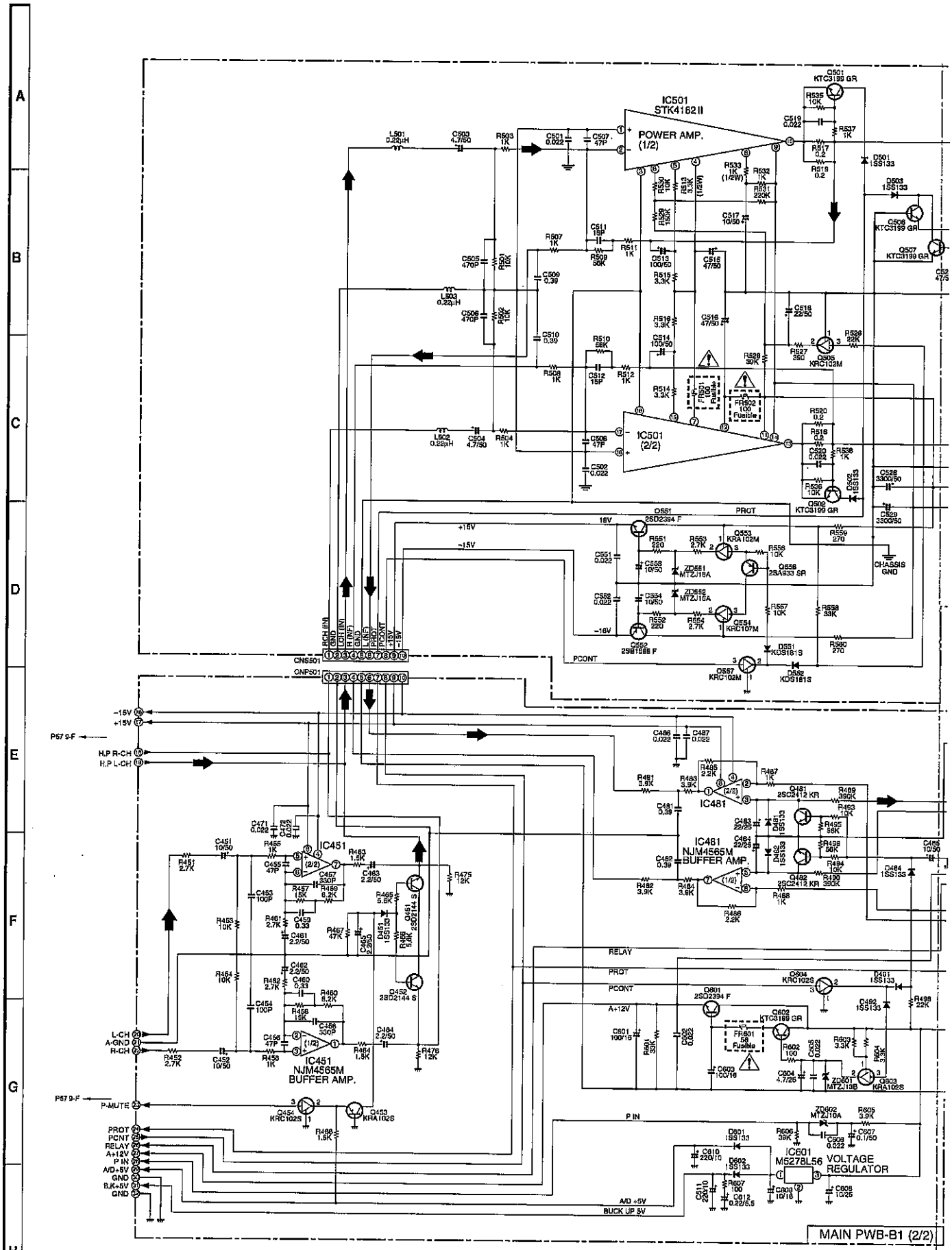
NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 56 SCHEMATIC DIAGRAM (9/26)



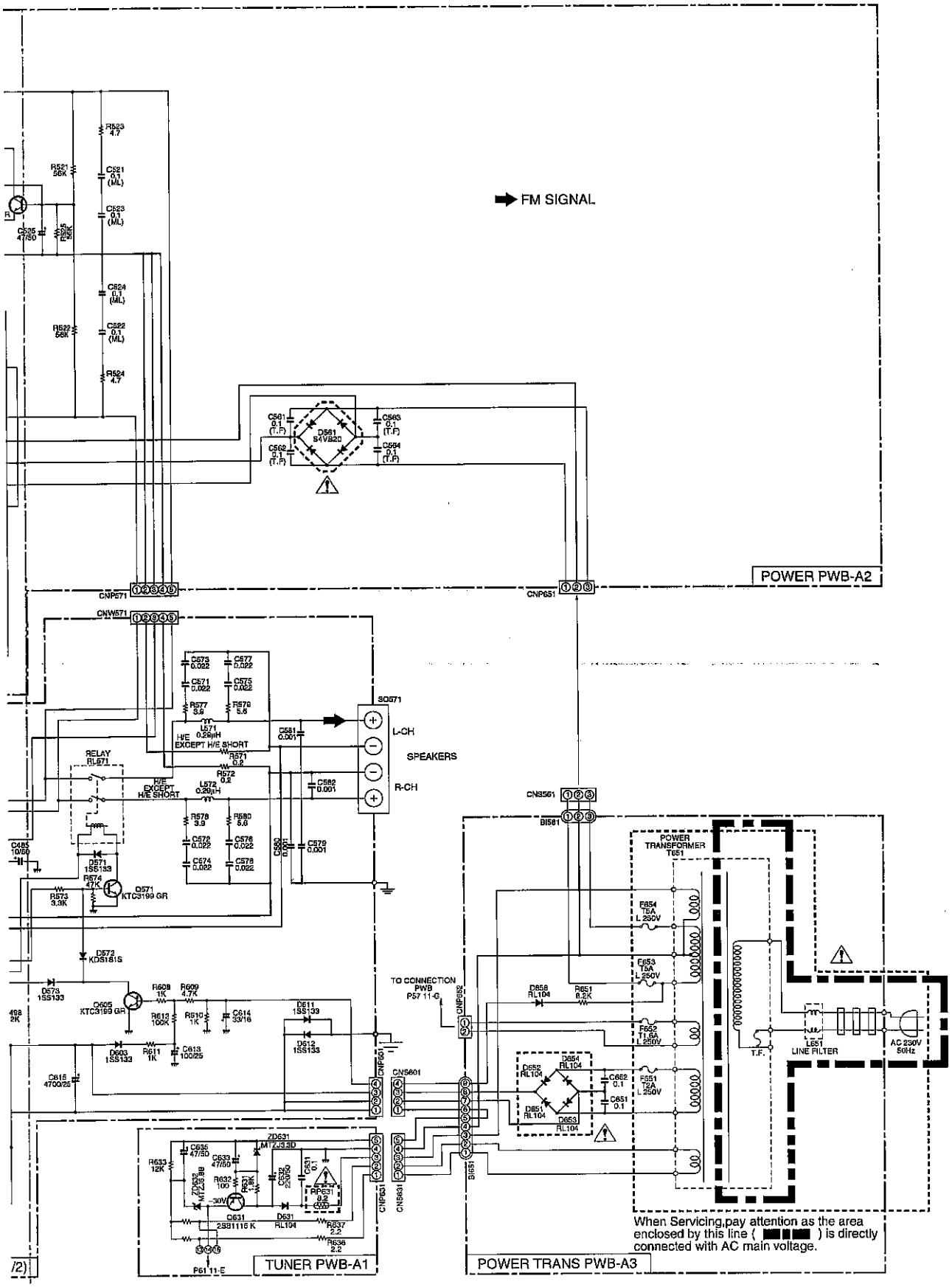
7	8	9	10	11	12

Figure 57 SCHEMATIC DIAGRAM (10/26)



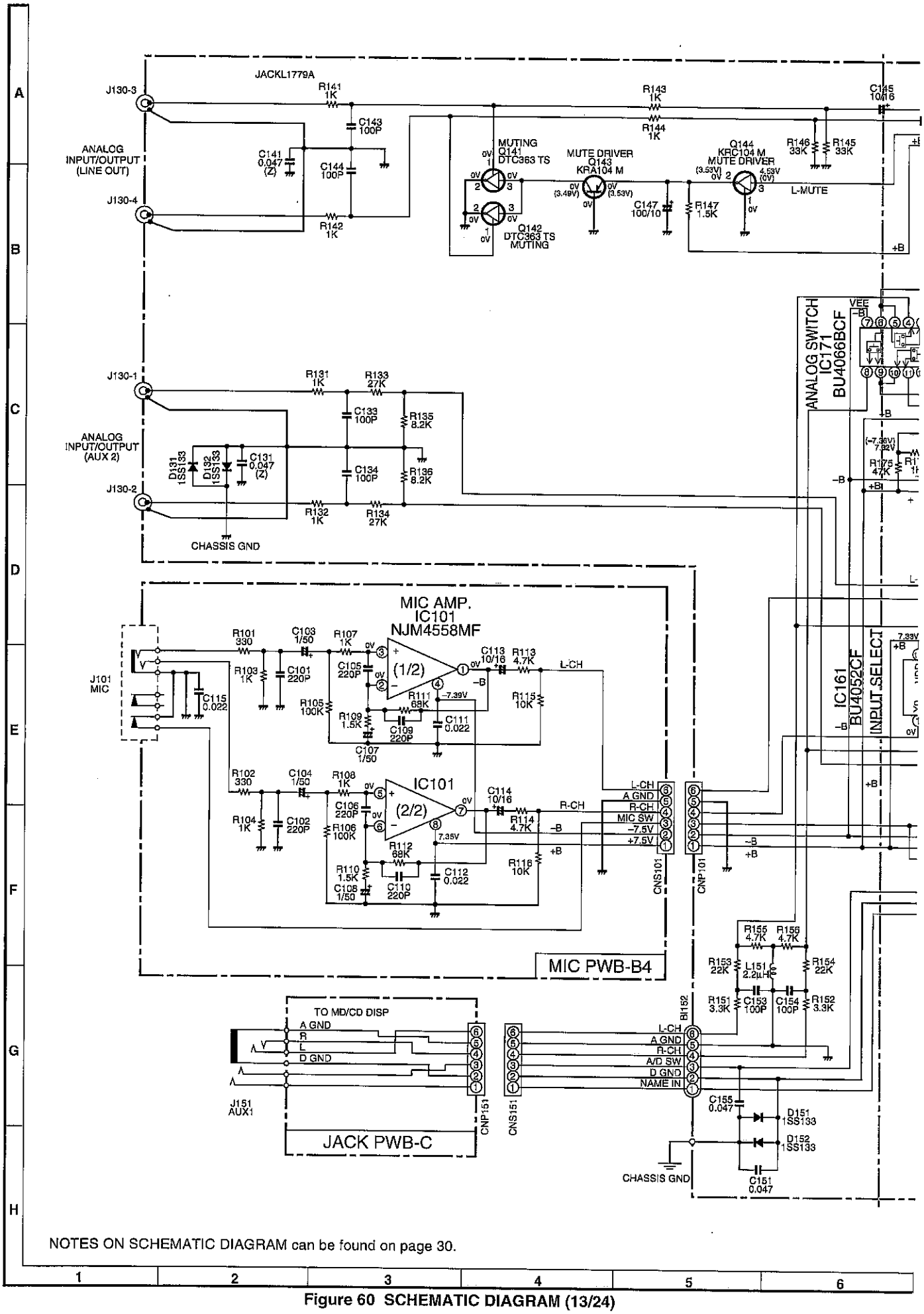
NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 58 SCHEMATIC DIAGRAM (11/24)



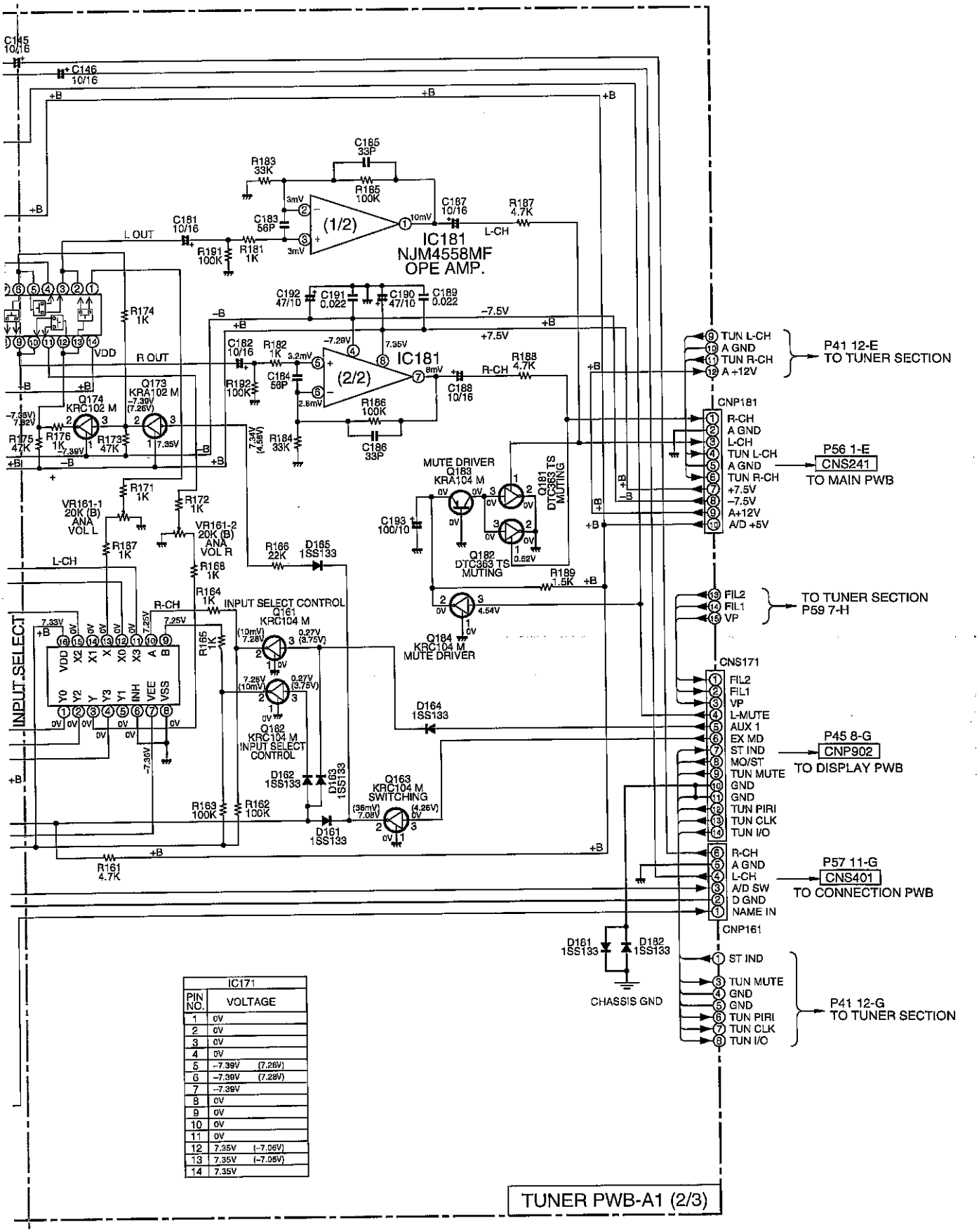
7	8	9	10	11	12

Figure 59 SCHEMATIC DIAGRAM (12/24)



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

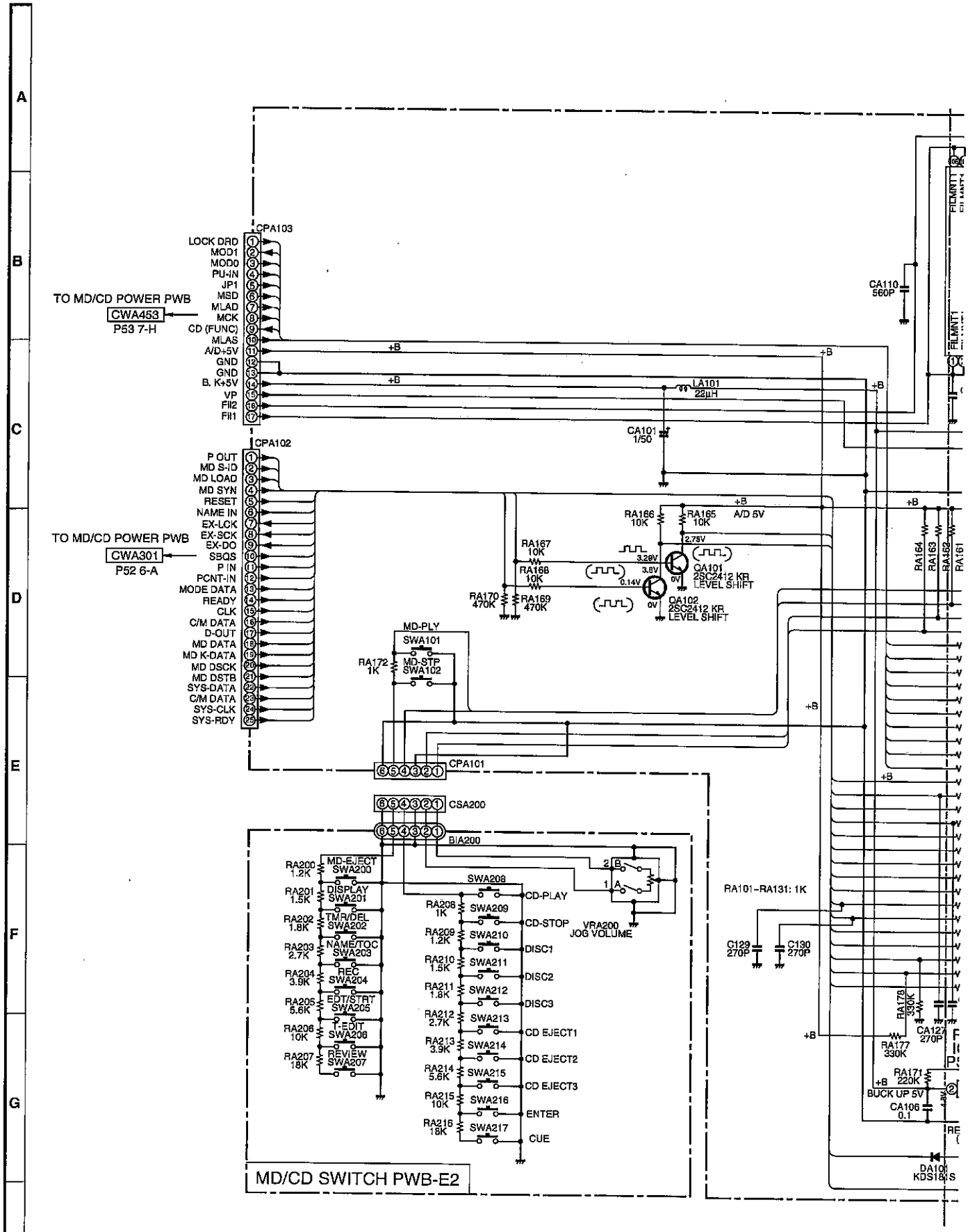
Figure 60 SCHEMATIC DIAGRAM (13/24)



IC171	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	–7.39V (7.26V)
6	–7.39V (7.28V)
7	–7.39V
8	0V
9	0V
10	0V
11	0V
12	7.35V (–7.06V)
13	7.35V (–7.05V)
14	7.35V

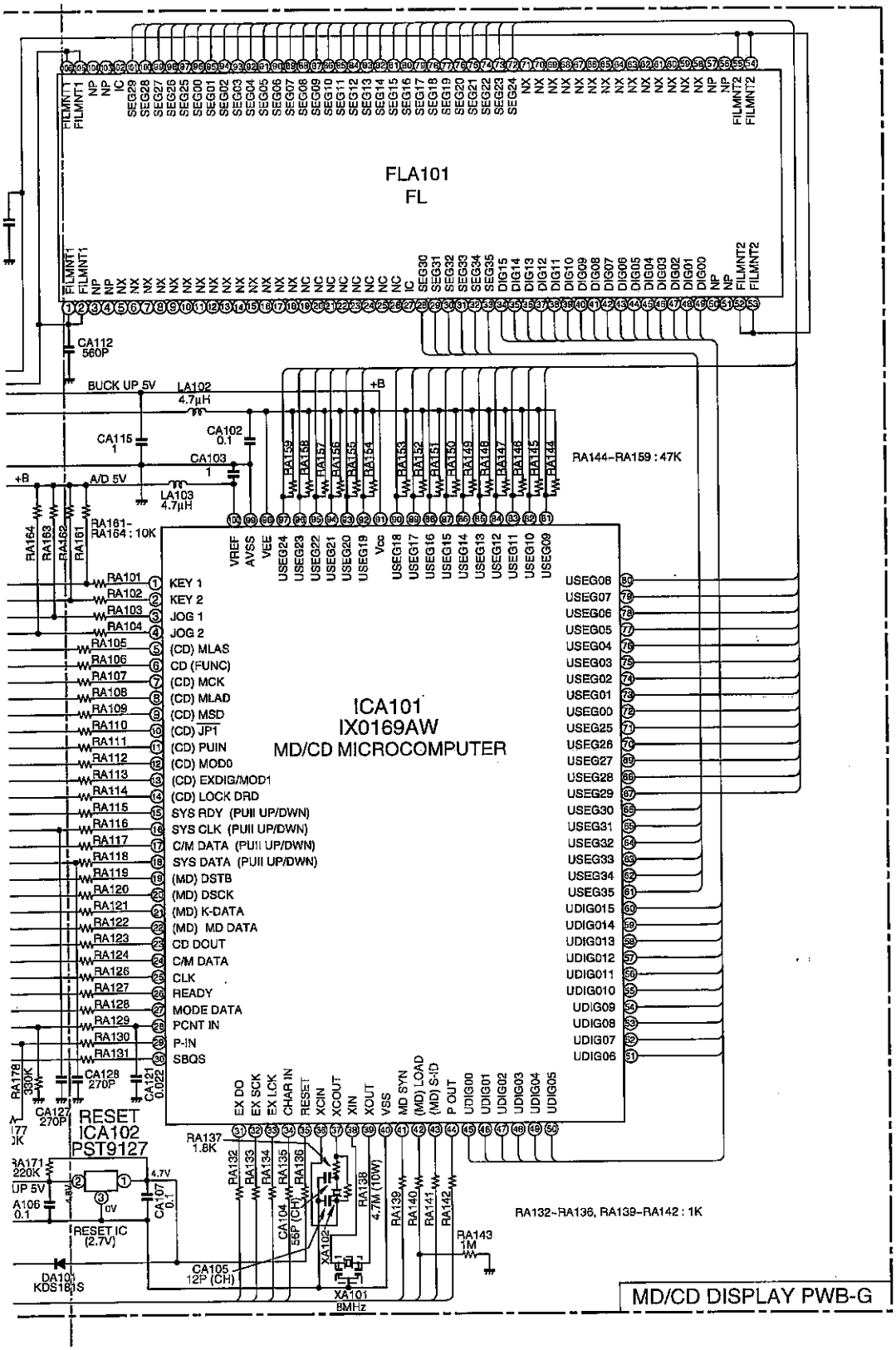
7	8	9	10	11	12

Figure 61 SCHEMATIC DIAGRAM (14/24)



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 62 SCHEMATIC DIAGRAM (15/26)

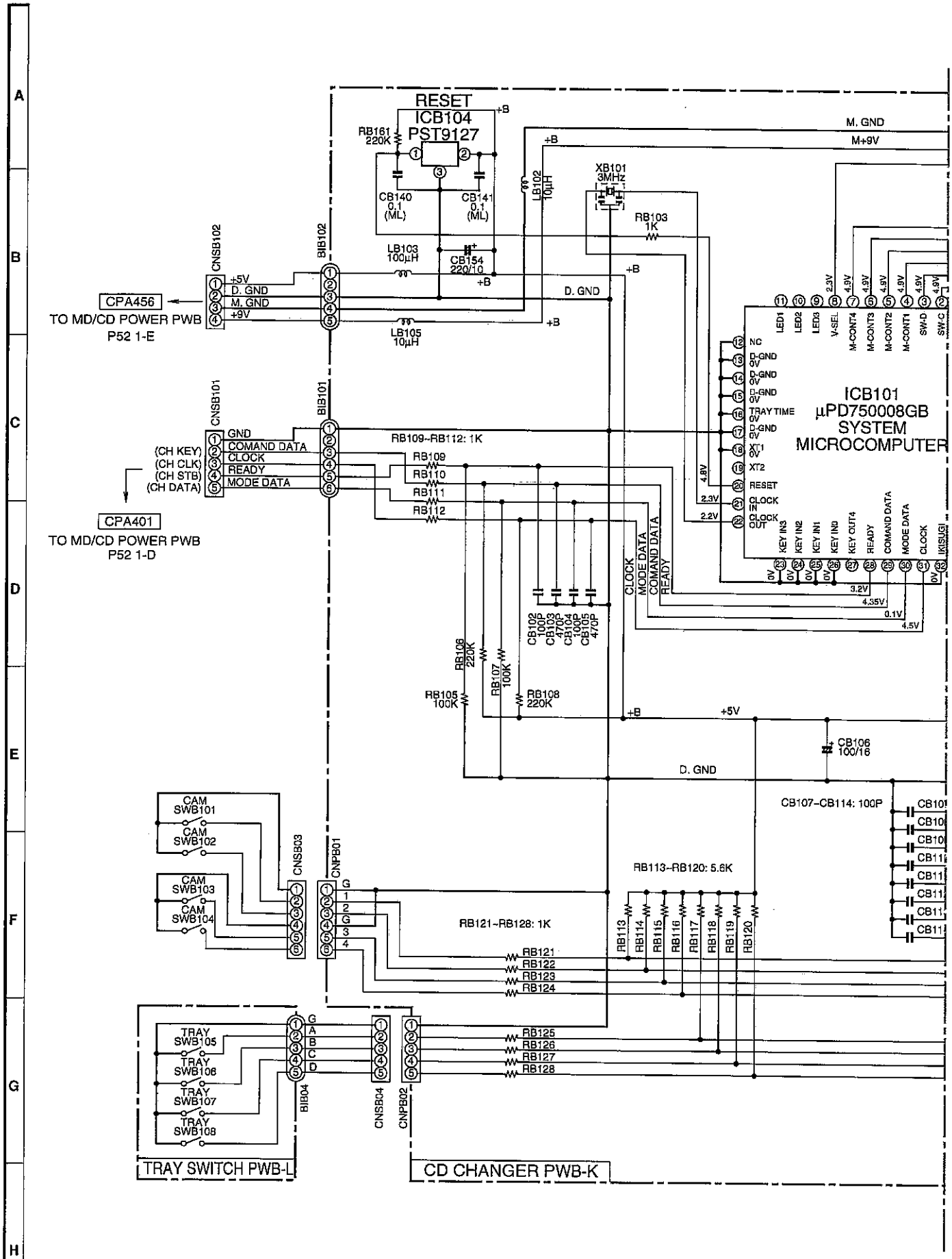


IC251

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.84V	51	-29V
2	4.84V	52	-29V
3	4.84V	53	-29V
4	4.48V	54	-29V
5	4.8V	55	-29V
6	4.77V	56	-29V
7	4.62V	57	-29V
8	4.79V	58	-29V
9	0.18V	59	-29V
10	4.79V	60	-29V
11	5.09V	61	12.7V
12	4.79V	62	-22.1V
13	4.75V	63	-24.4V
14	5.12V	64	-25.6V
15	0.96V	65	-25.5V
16	4.25V	66	-24.3V
17	0.09V	67	-24.4V
18	4.02V	68	-24.4V
19	2.77V	69	-22.1V
20	3.95V	70	-24.3V
21	0.31V	71	-24.3V
22	3V	72	-29V
23	5.14V	73	-29V
24	4.37V	74	-29V
25	4.58V	75	-29V
26	3.2V	76	-26.3V
27	0.57V	77	-24.1V
28	4.01V	78	-24V
29	4.66V	79	-26.5V
30	5.06V	80	-28.4V
31	4.79V	81	-25.9V
32	4.8V	82	-22.6V
33	0V	83	-22.5V
34	4.83V	84	-22.6V
35	4.7V	85	-24.8V
36	2.21V	86	-22.6V
37	1.97V	87	-27.1V
38	2.15V	88	-27.1V
39	2.16V	89	-27.1V
40	0V	90	-26.8V
41	0V	91	4.8V
42	0V	92	-28.9V
43	0V	93	-26.7V
44	0V	94	-22.3V
45	-29V	95	-24.5V
46	-29V	96	-22.4V
47	-29V	97	-20.4V
48	-29V	98	-31.5V
49	-29V	99	0V
50	-29V	100	4.8V

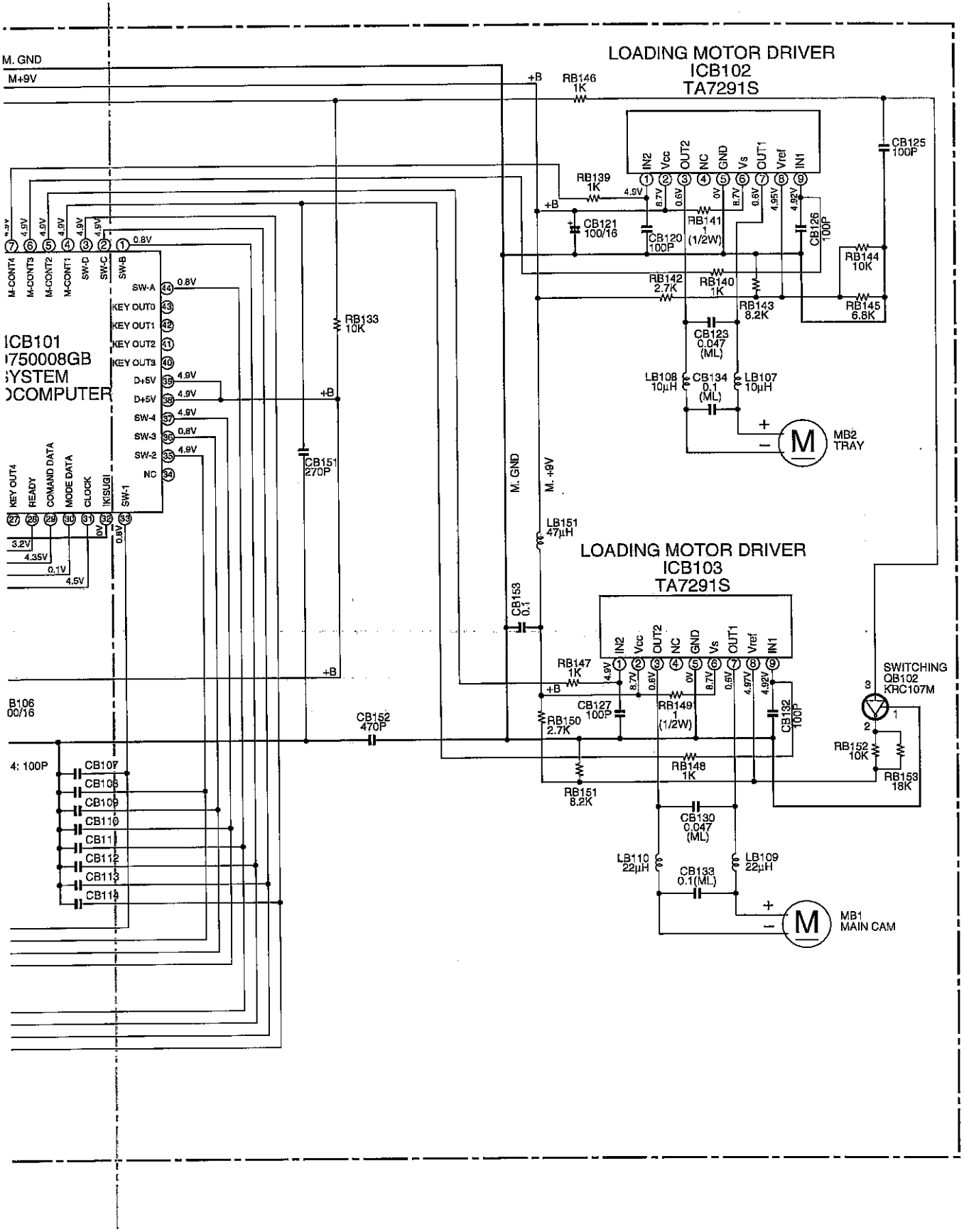
7	8	9	10	11	12

Figure 63 SCHEMATIC DIAGRAM (16/26)



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 64 SCHEMATIC DIAGRAM (17/26)



7	8	9	10	11	12

Figure 65 SCHEMATIC DIAGRAM (18/26)

SITUATION :

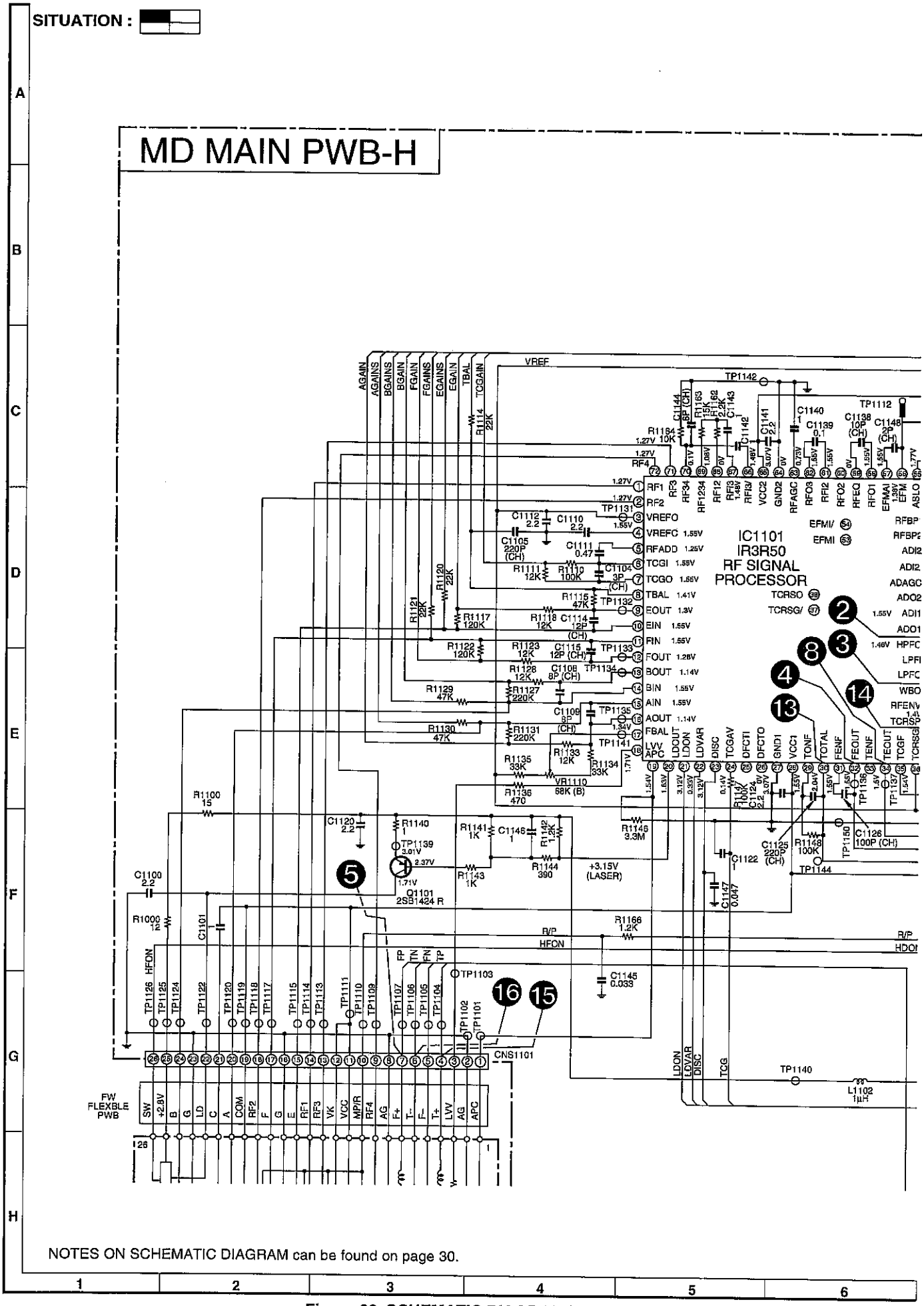
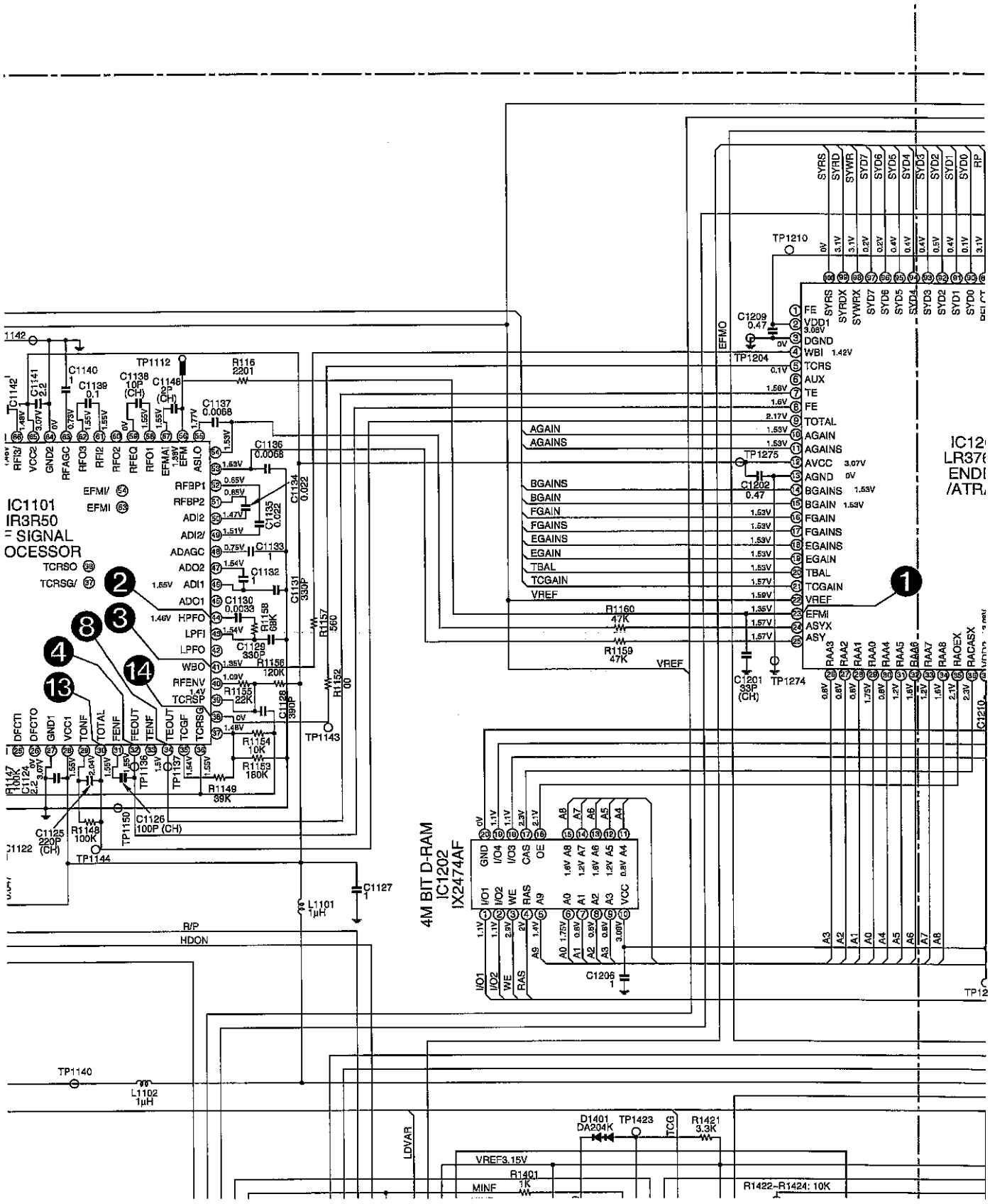


Figure 66 SCHEMATIC DIAGRAM (19/26)


IC1101
IR3R50
SIGNAL
OCESSOR
4M BIT D-RAM
IC1202
IX2474AF
TP1210
TP1204
TP1275
TP1274
TP1112
TP1143
TP1144
TP1140
TP1150
L1101
1µH
L1102
1µH
C1209
0.47
C1202
0.47
C1201
330
(CH)
C1127
1
C1206
1
C1126
100P (CH)
C1125
220P
(CH)
R1160
47K
R1159
47K
R1149
39K
R1148
100K
R1147
100K
R1154
10K
R1153
180K
R1155
22K
R1156
120K
R1157
560
R1152
00
R116
2201
C1140
C1139
0.1
C1138
10P
(CH)
C1137
0.0068
C1136
0.0068
C1134
0.022
C1135
0.022
C1133
1
C1132
1
C1131
330P
C1130
0.0033
C1129
330
C1128
390P
D1401
DA204K
TP1423
R1421
3.3K
VREF3.15V
R1401
1K
MINF
LDVAR
R1422-R1424: 10K
EFMO
AGAIN
AGAINS
BGAINS
BGAIN
FGAIN
FGAINS
EGAINS
EGAIN
TBAL
TCGAIN
VREF
EFMI
ASYX
ASY
FE
VDD1
DGND
WBI
TCRS
AUX
TE
FE
TOTAL
AGAIN
AGAINS
AVCC
AGND
BGAINS
BGAIN
FGAIN
FGAINS
EGAINS
EGAIN
TBAL
TCGAIN
VREF
EFMI
ASYX
ASY
SYRS
SYRD
SYWR
SYD7
SYD6
SYD5
SYD4
SYD3
SYD2
SYD1
SYD0
SYRX
SYWX
RAA3
RAA2
RAA1
RAA0
RAA4
RAA5
RAA6
RAA7
RAA8
RAOEX
RACASX
RFI3/
VCC2
GND2
RFAGC
RFO3
RFI2
RFO2
RFEQ
RFO1
EFMA
EFM
ASLO
RFBP1
RFBP2
ADI2
ADI2/
ADAGC
ADO2
ADI1
ADC1
HPFO
LPFI
LPFO
WBO
RFENV
TCRSP
TCRSG
TCGF
TEOUT
TENF
FEOUT
FENF
TOTAL
TONF
VCC1
GND1
DFCTO
DFCTI
EFMI/
EFMI
TCRSO
TCRSG/
R/P
HDON
I/O1
I/O2
WE
RAS
A9
A0
A1
A2
A3
VCC
I/O4
I/O3
CAS
OE
A8
A7
A6
A5
A4
GND
1.1V
2.9V
2V
1.4V
1.75V
0.8V
3.08V
2.3V
2.1V
0V
1.2V
1.6V
0.4V
0.5V
0.1V
3.1V
0.2V
1.42V
0.1V
1.56V
1.6V
2.17V
1.53V
3.09V
3.07V
1.63V
1.57V
1.59V
1.35V
1.54V
1.55V
1.46V
1.47V
1.51V
0.75V
0.85V
1.49V
1.09V
1.42
1.48V
1.77V
1.38V
2.54V
2.07V
1.64V
1.65V
1.5V
1.52V
2.2
3.07V
2.2
2.2
0.47
0.1
0.0068
0.0033
0.022
330P
390P
68K
120K
22K
10K
180K
39K
100K
100P (CH)
220P
(CH)
1µH
1µH
3.3K
1K
10K
560
47K
47K
330
(CH)
1
1
0.47
2.2
2.2
0.1
10P
(CH)
0.0068
0.0068
0.022

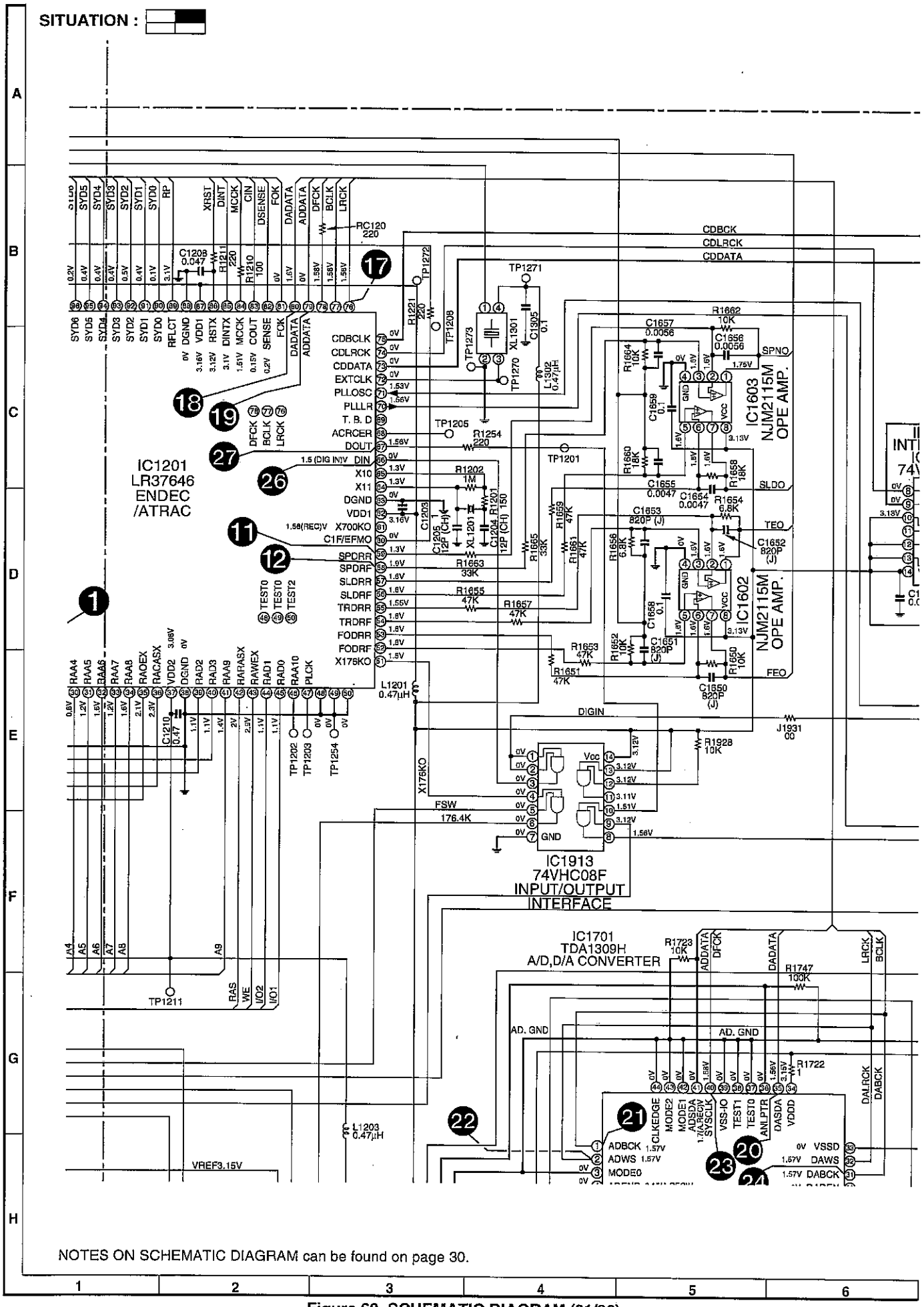
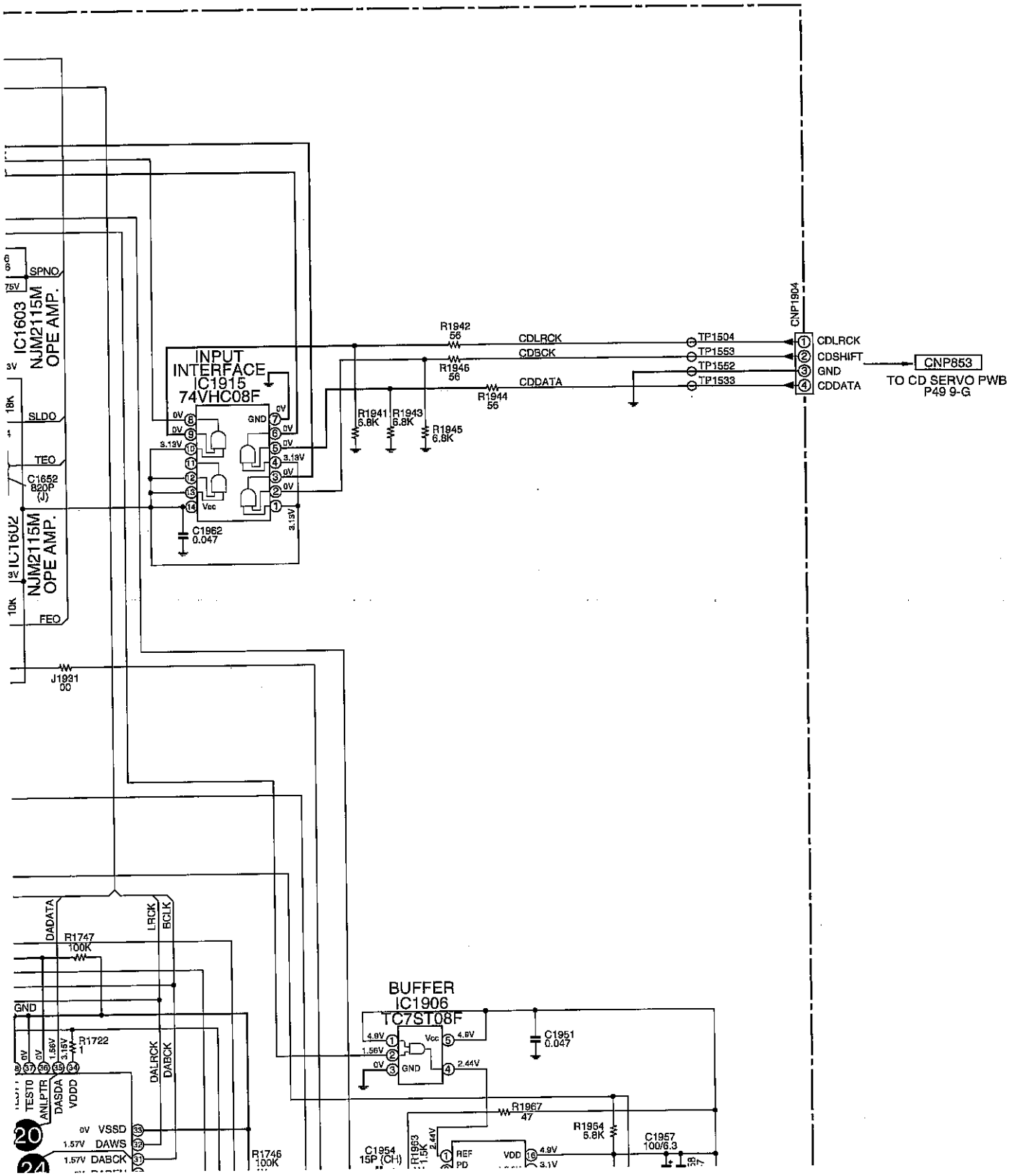


Figure 68 SCHEMATIC DIAGRAM (21/26)

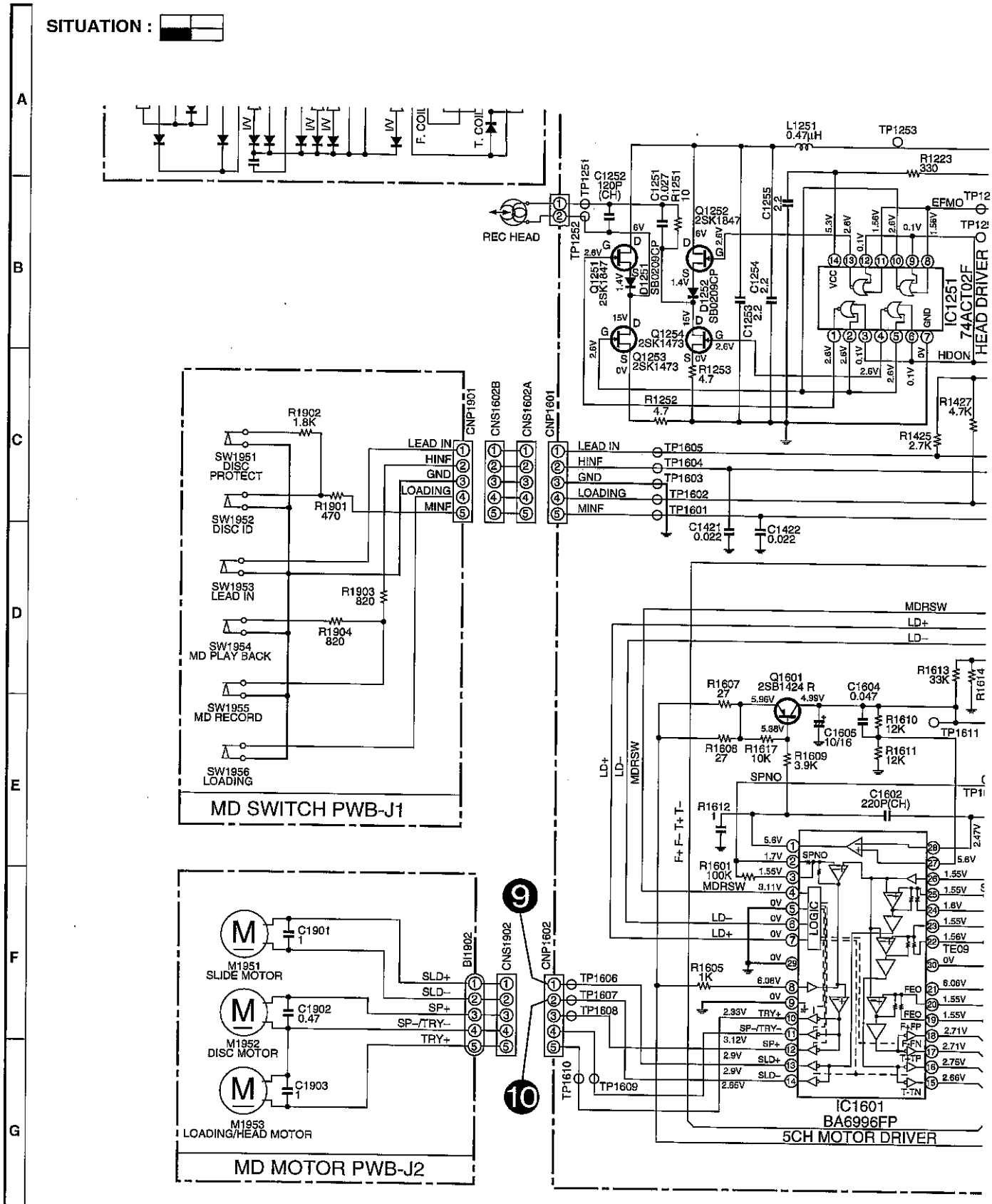


The numbers ❶ to ❸❷ are waveform numbers shown in page 78, 79.

7	8	9	10	11	12

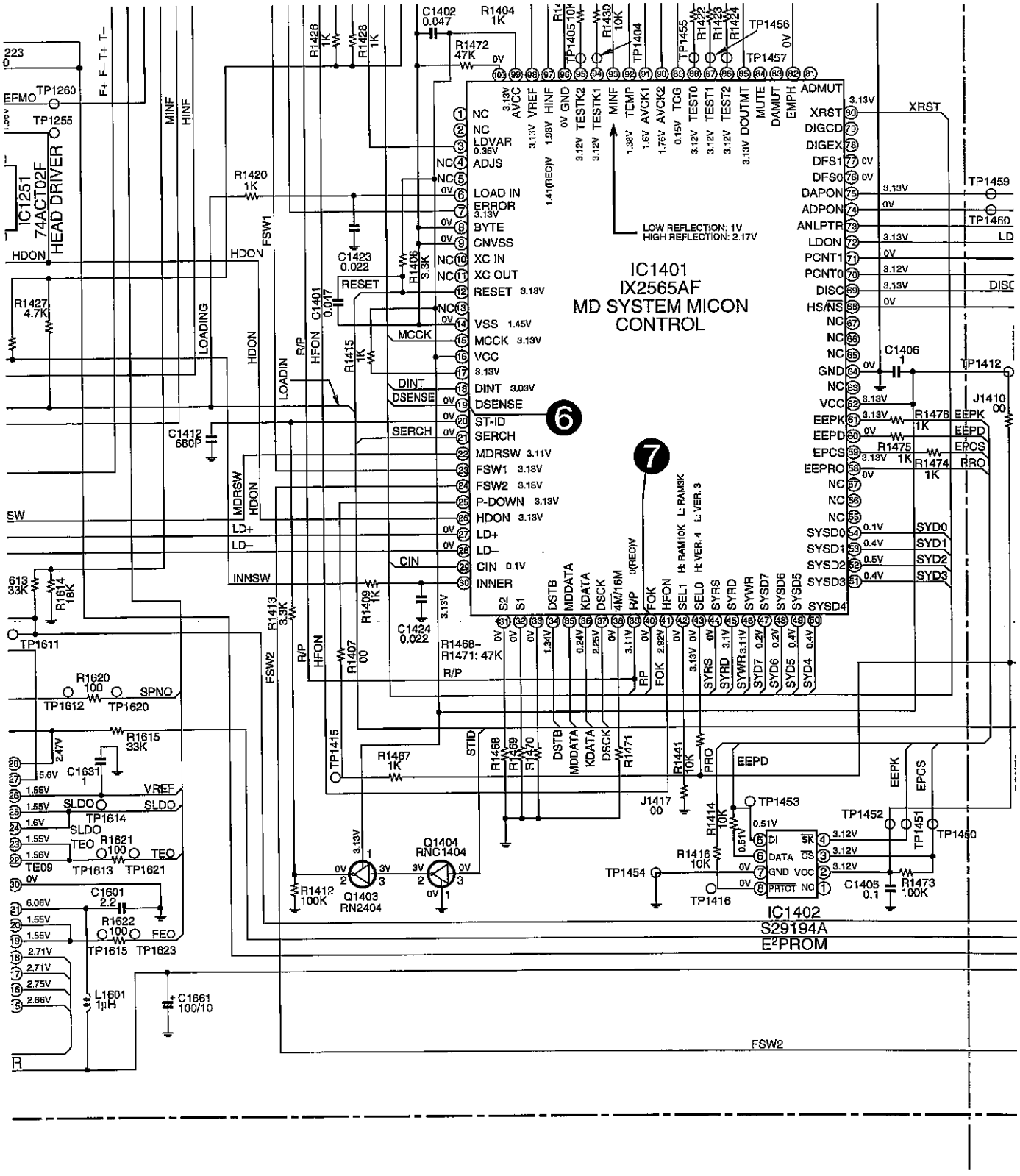
Figure 69 SCHEMATIC DIAGRAM (22/26)

SITUATION :



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

Figure 70 SCHEMATIC DIAGRAM (23/26)

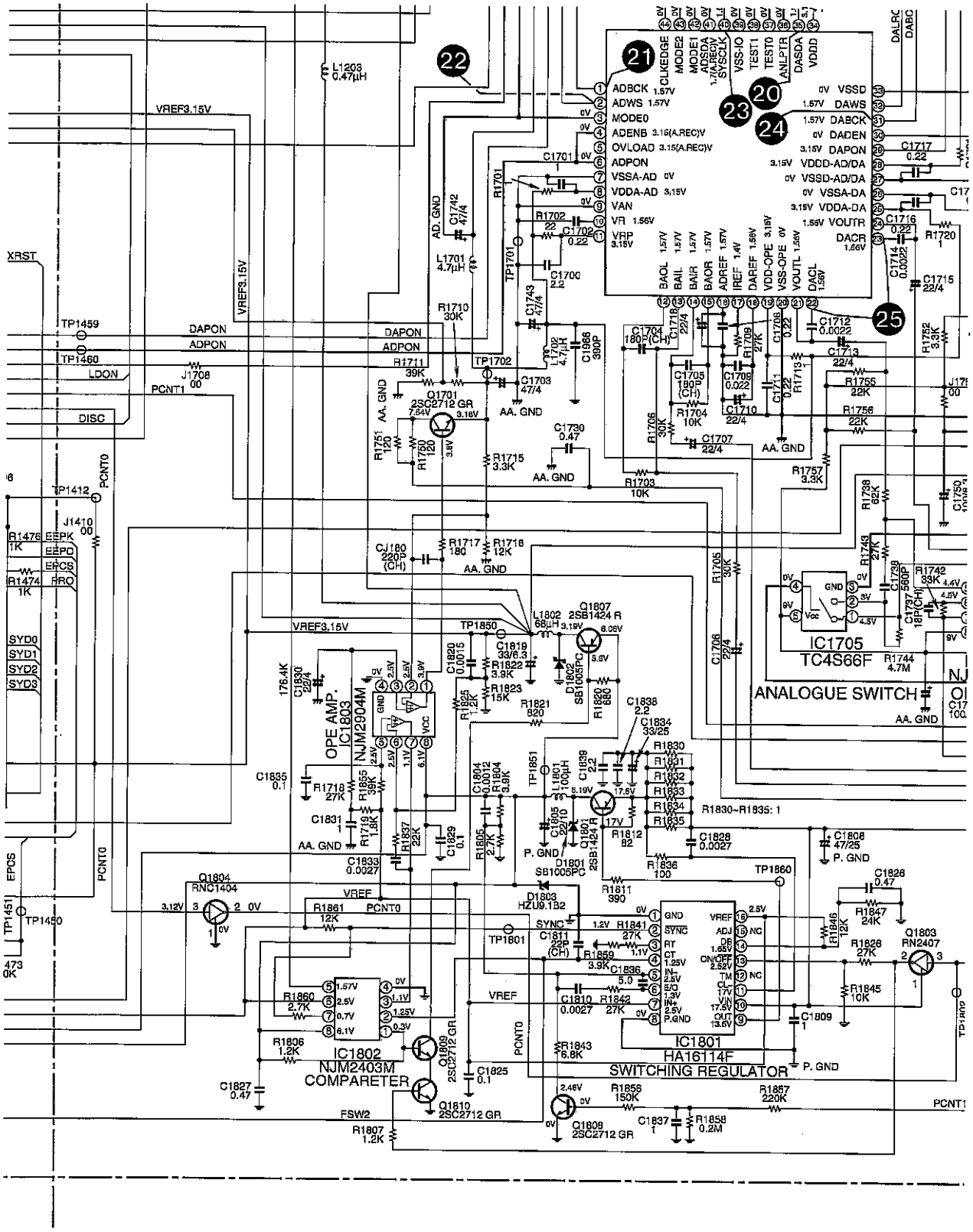


The numbers ❶ to ❸❷ are waveform numbers shown in page 78, 79.

7	8	9	10	11	12

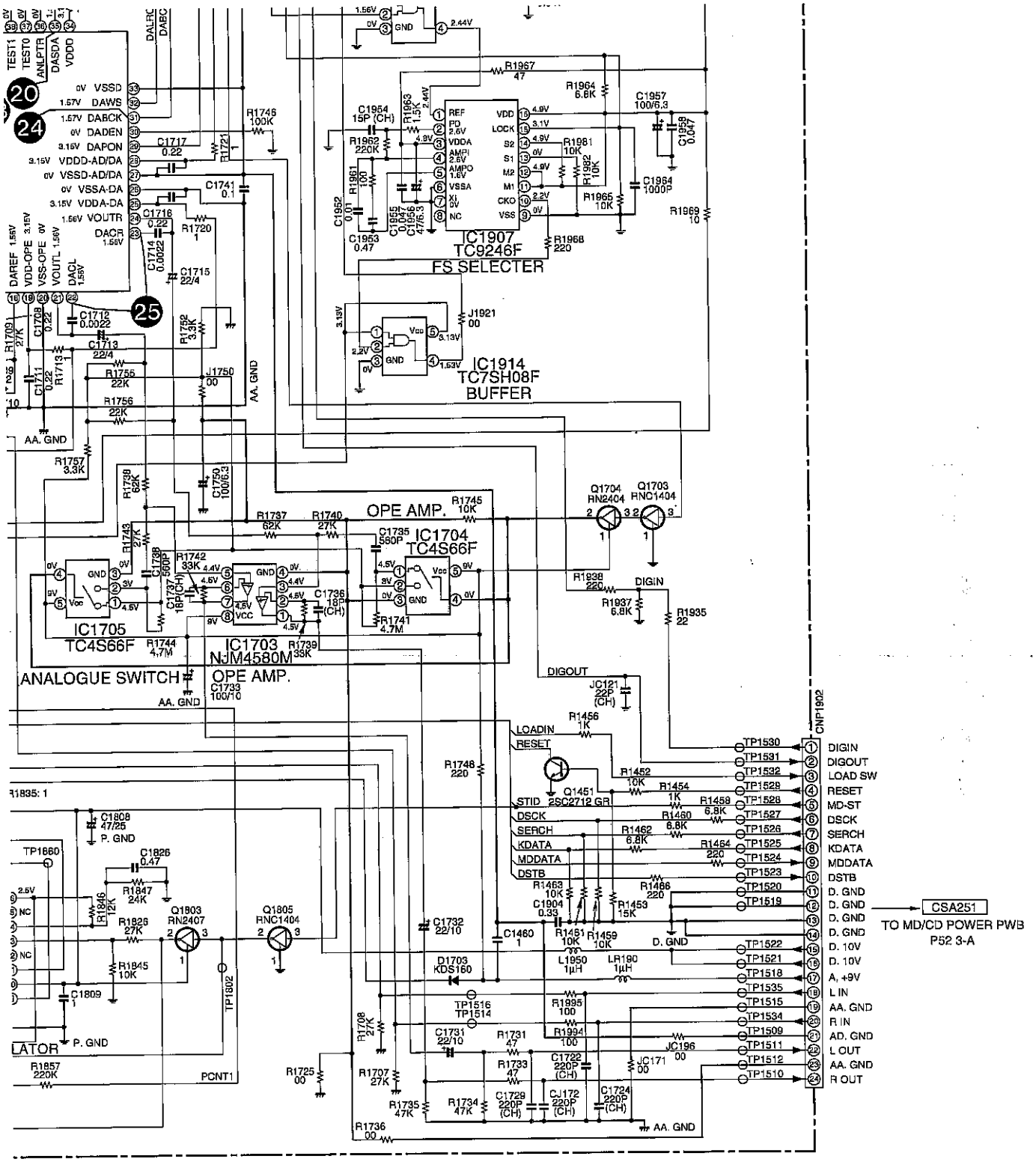
Figure 71 SCHEMATIC DIAGRAM (24/26)

SITUATION :



NOTES ON SCHEMATIC DIAGRAM can be found on page 30.

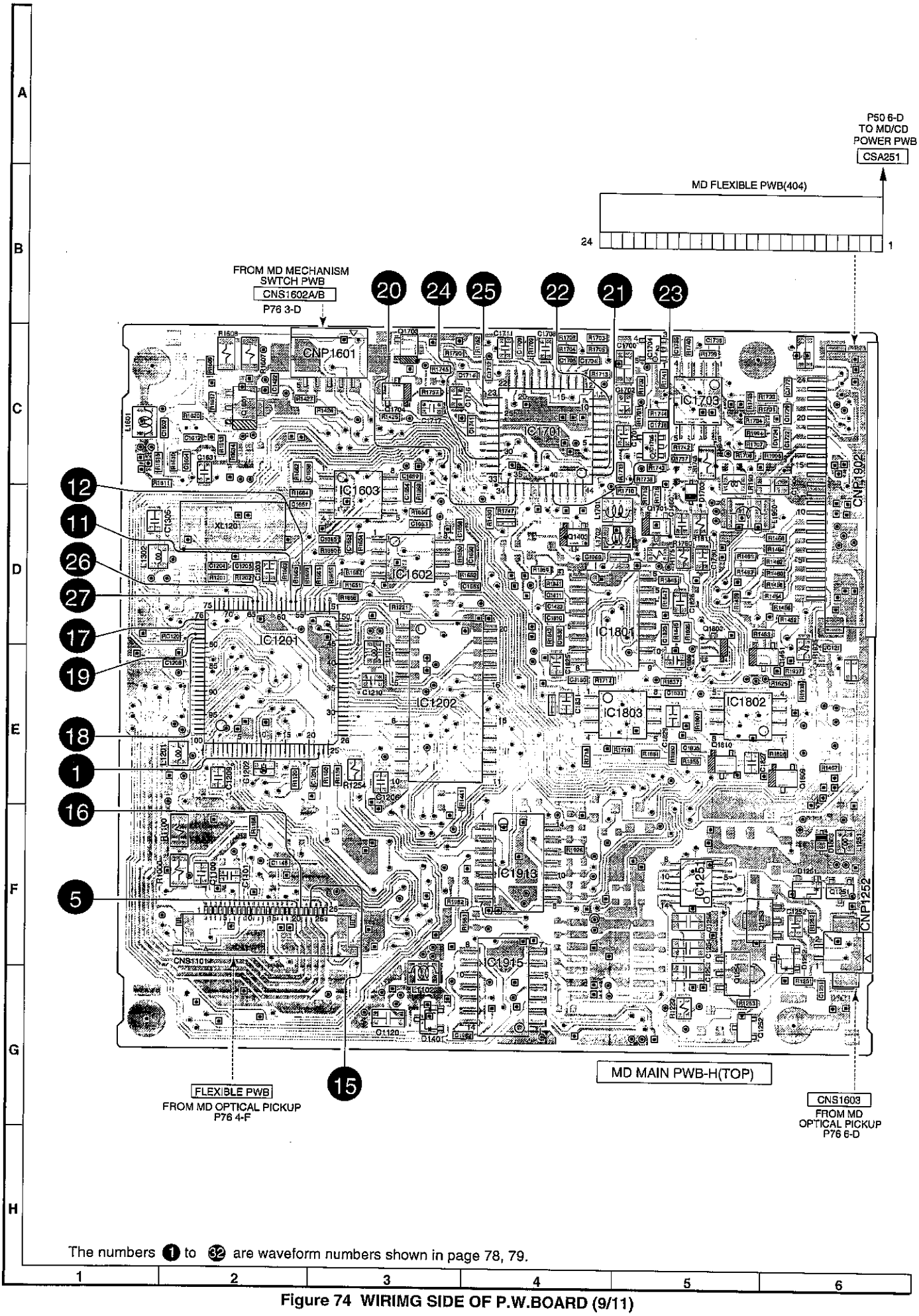
Figure 72 SCHEMATIC DIAGRAM (25/26)



The numbers ❶ to ㉜ are waveform numbers shown in page 78, 79.

7	8	9	10	11	12

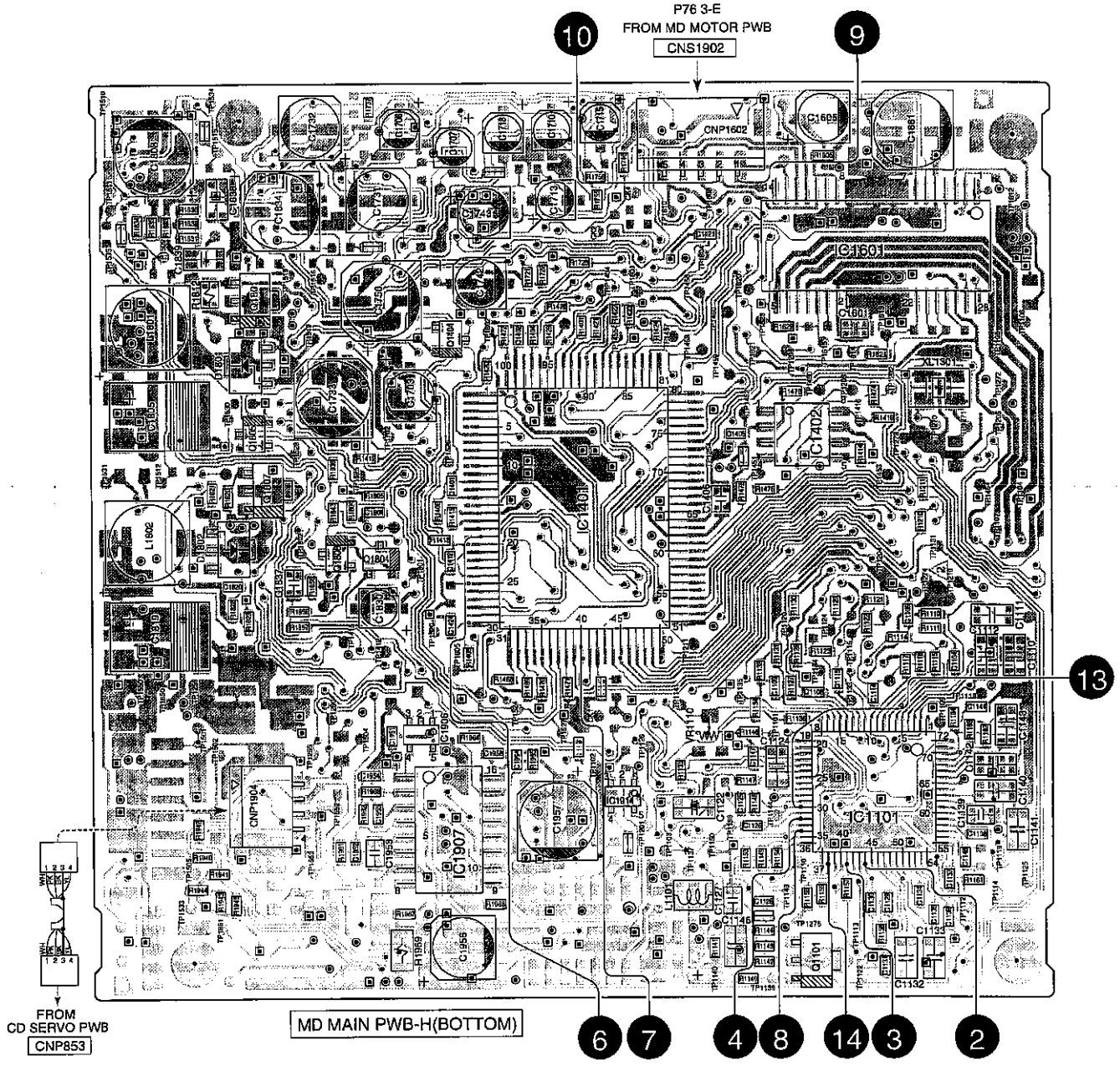
Figure 73 SCHEMATIC DIAGRAM (26/26)



The numbers ❶ to ㉜ are waveform numbers shown in page 78, 79.

Figure 74 WIRIMG SIDE OF P.W.BOARD (9/11)

◉ :Through-hole where the top, bottom and +B patterns are connected.
▣ :Through-hole where the top, bottom and ground patterns are connected.
• :Through-hole where the top and bottom patterns are connected.



7	8	9	10	11	12

Figure 75 WIRIMG SIDE OF P.W.BOARD (10/11)

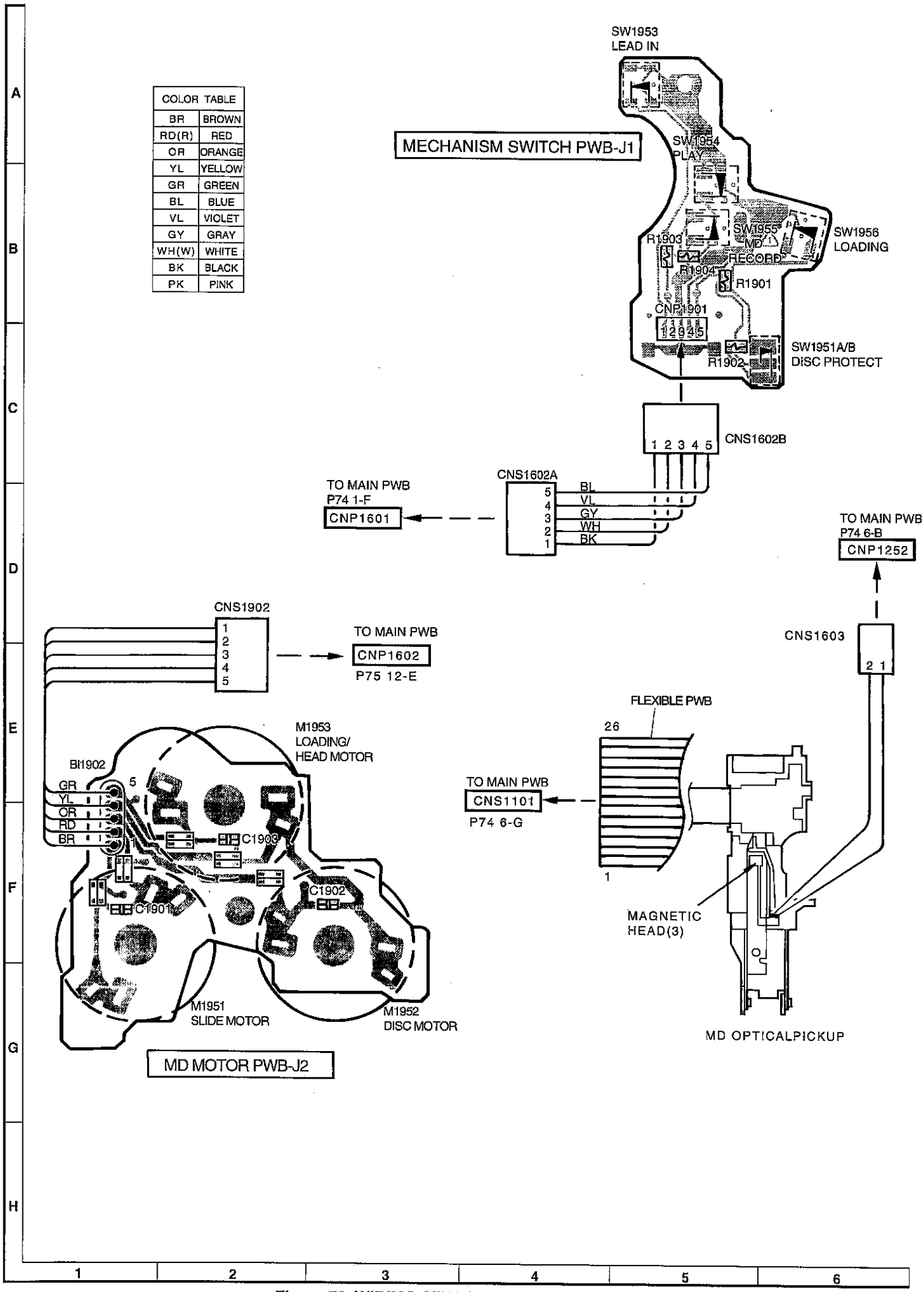


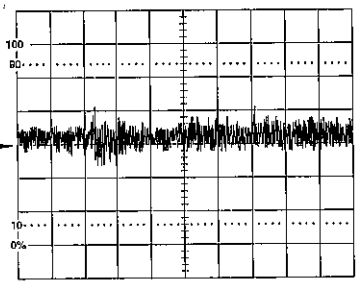
Figure 76 WIRIMG SIDE OF P.W.BOARD (11/11)

WAVEFORMS OF CD CIRCUIT (CD SECTION)

1 IC700 ①, ②
2V/1mS (DC range)
[Disc playback mode]

Potential difference 0V →

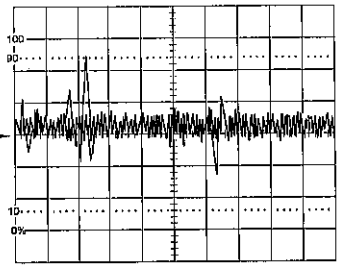
No flaw on disc



Flaw found on disc
(The same as stated above)

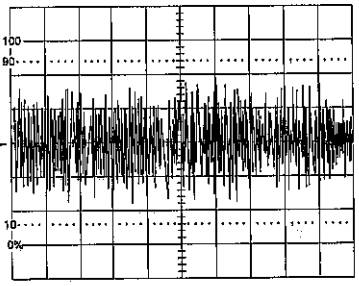
Potential difference 0V →

If flaw exists on the disc, t he pulse-like noise as shown in the figure appears. Moreover, the output ❷ TE and FE signals contain noise similarly.



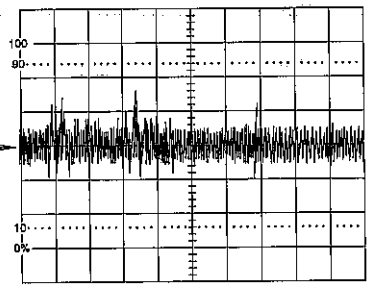
2 IC700 ⑪, ⑫
0.5V/0.5mS
(DC range)
[Disc playback mode]

Potential difference 0V →

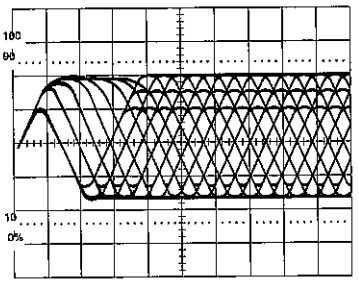


3 IC750 ⑨
50mV/2mS
[Disc playback mode]

1/2VCC →

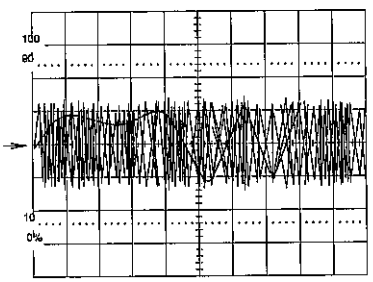


4 TP751 ③
0.2V/0.5µS
(AC range)
[Disc playback mode]



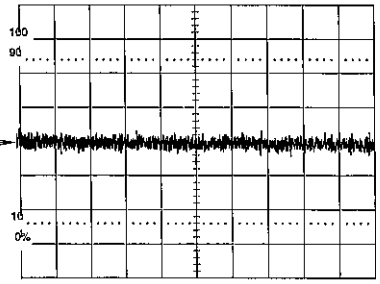
5 TP751 ④
0.2V/1mS
(DC range)
TEST mode 3

1/2VCC →



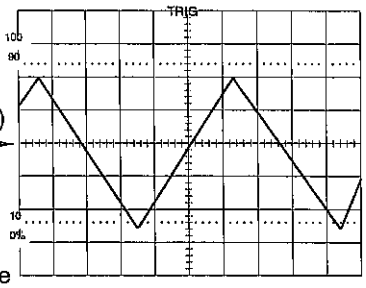
0.2V/1mS (DC range)
[Disc playback mode]

1/2VCC →



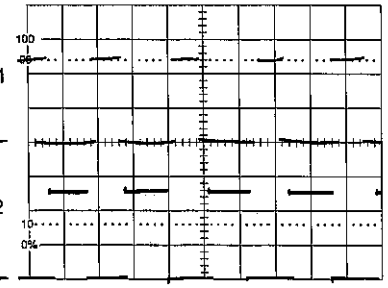
6 IC750 ㉒
TEST mode 2
(Disk is not loaded and the lens is moved up and down)
1/2VCC →
200mV/0.5S (DC range)

* The storage oscilloscope is used for measurement. Only the triangular wave luminous dot appears on the ordinary oscillograph.

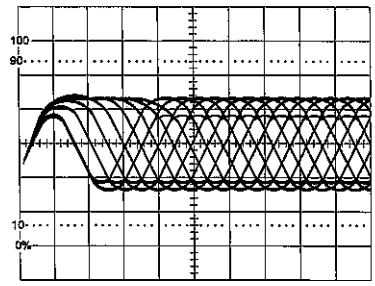


7 IC800 ㊲, ㊳
Disc motor
PWM output
0.2V/10µS
(DC range)
[Disc playback mode]
(Use the 10:1 p robe.)

PWM1
GND →
PWM2
GND →

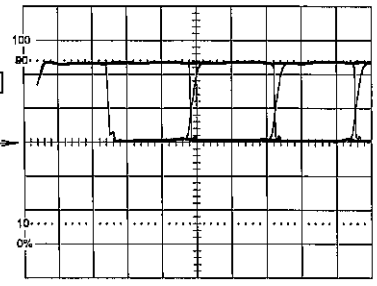


8 IC800 ⑲
20mV/0.5µS
(AC range)
[Disc playback mode]
(Use the 10:1 probe.)



9 IC800 ㉘
2V/0.1µS (DC range)
[Disc playback mode]

GND →

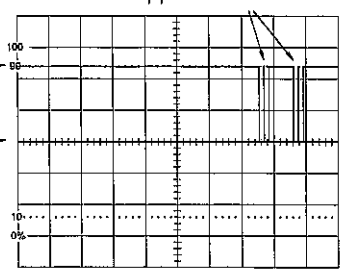


* If flaw exists on the disc or when t rack search is performed, such a p ulse-like L-level appears.

10 IC800 ④
2Vdiv (DC range)

PLAY 4.8V →

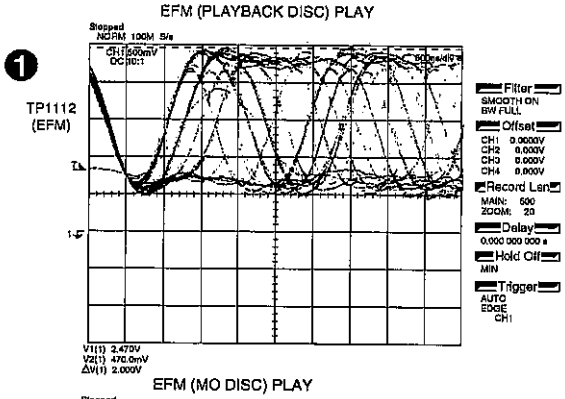
STOP 0V →



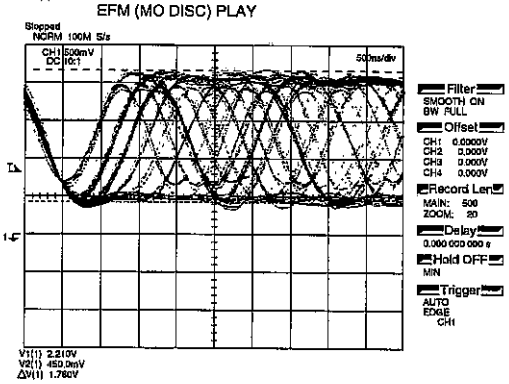
When the disc is rotated and the HF signal is synchronized with the IC internalsignal, H level appears.

WAVEFORMS OF MD CIRCUIT (MD SECTION)

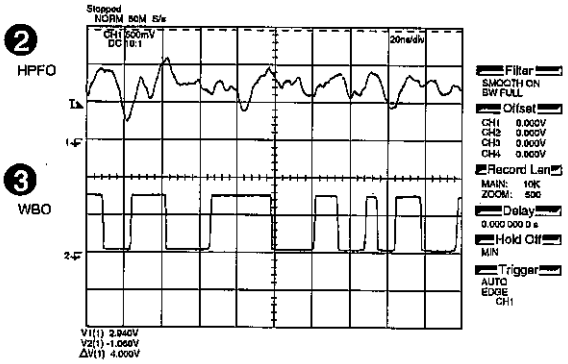
EFM (PLAYBACK DISC) PLAY



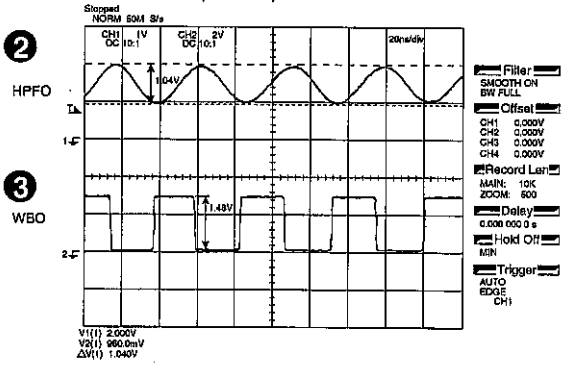
EFM (MO DISC) PLAY



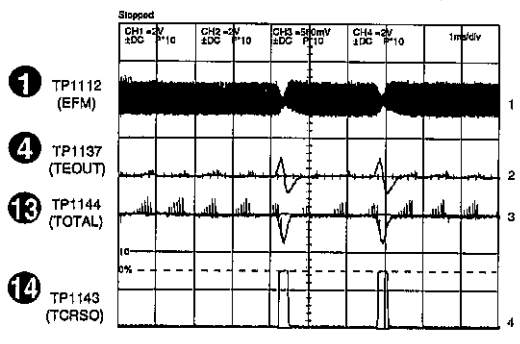
PLAYBACK MD – PLAY



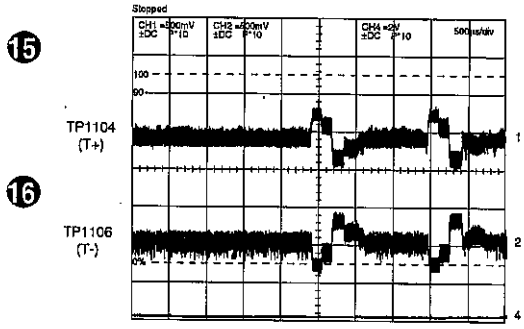
PLAY (MO DISC)



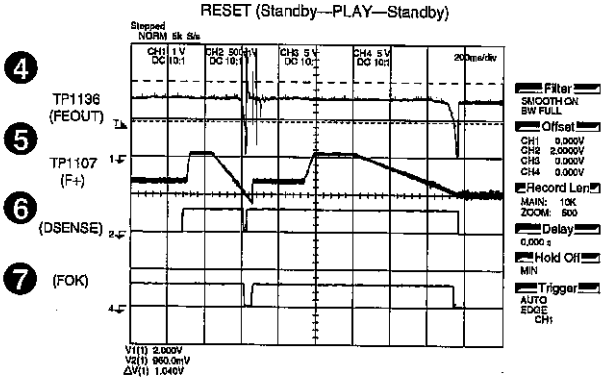
PLAY (RECORDBLE MD MO DISC)



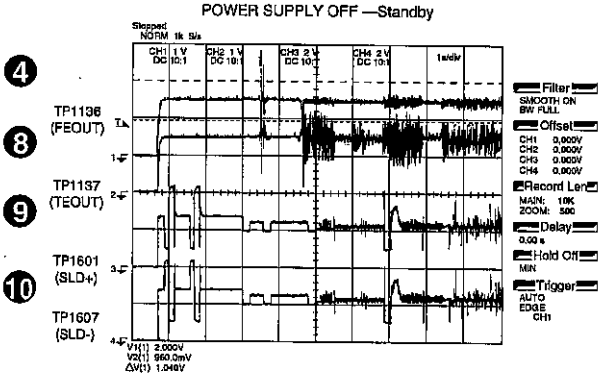
MODISC (NORMAL PLAY)



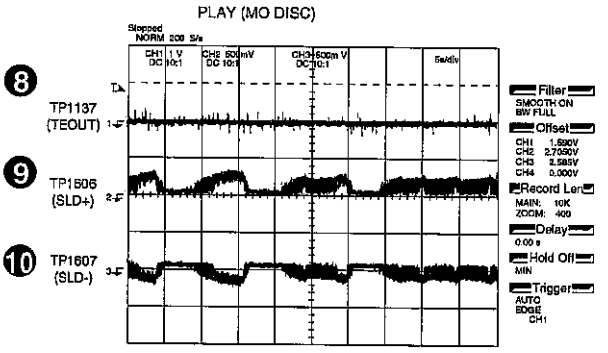
RESET (Standby→PLAY→Standby)



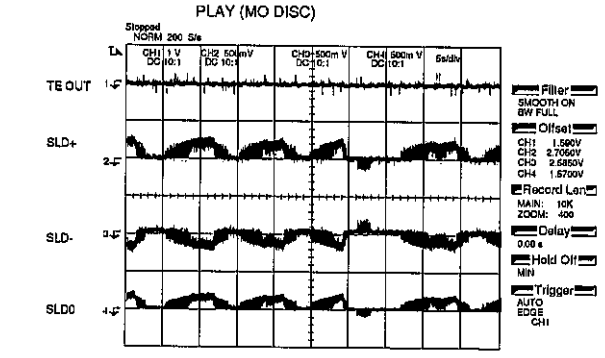
POWER SUPPLY OFF —Standby



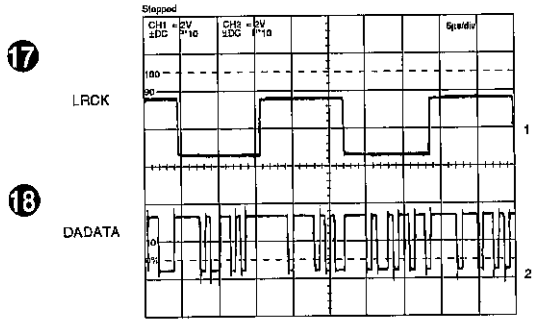
PLAY (MO DISC)



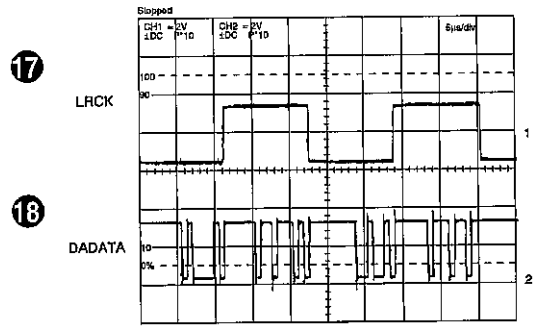
PLAY (MO DISC)



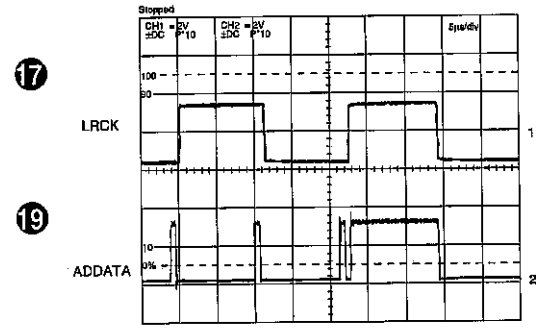
PLAY (MO DISC)



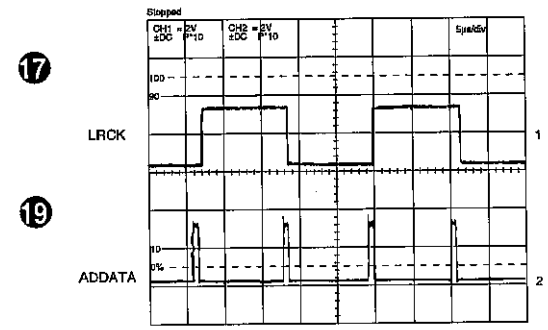
PLAY (PLAYBACK MD)



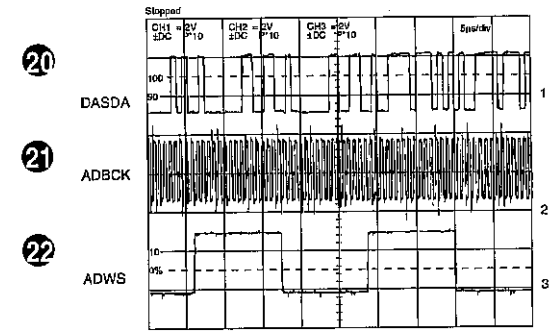
ANALOG REC (AUX-IN—NO SIGNAL)



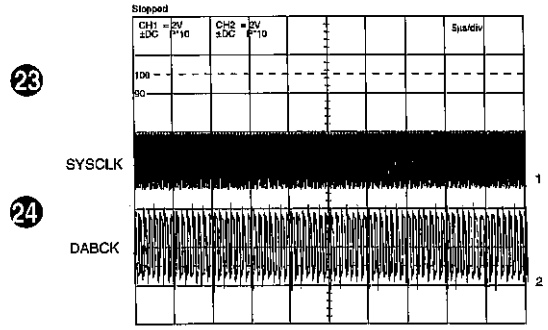
ANALOG REC (AUX-IN—NO SIGNAL)

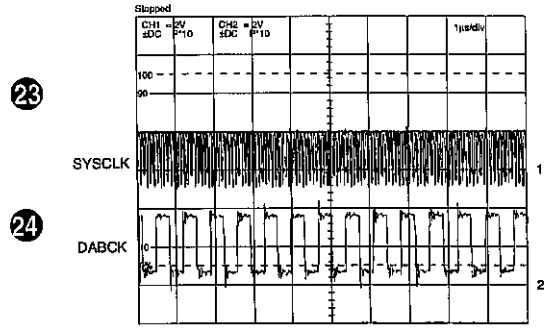


PLAY (RECORDBLE MD MO DISC)

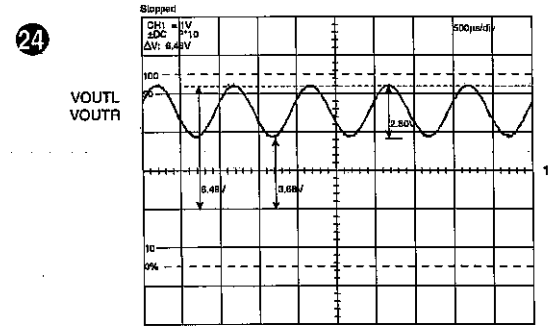


PLAY

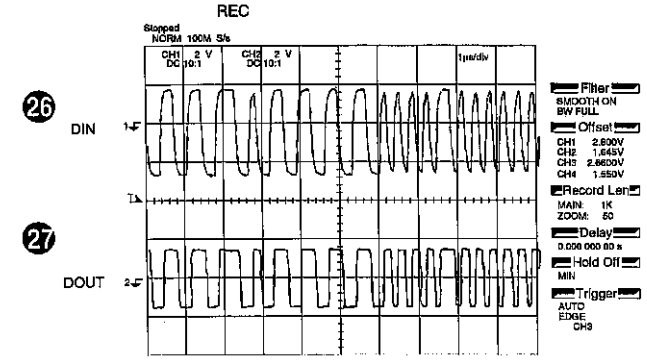




PLAYBACK (1kHz,0dB)



REC

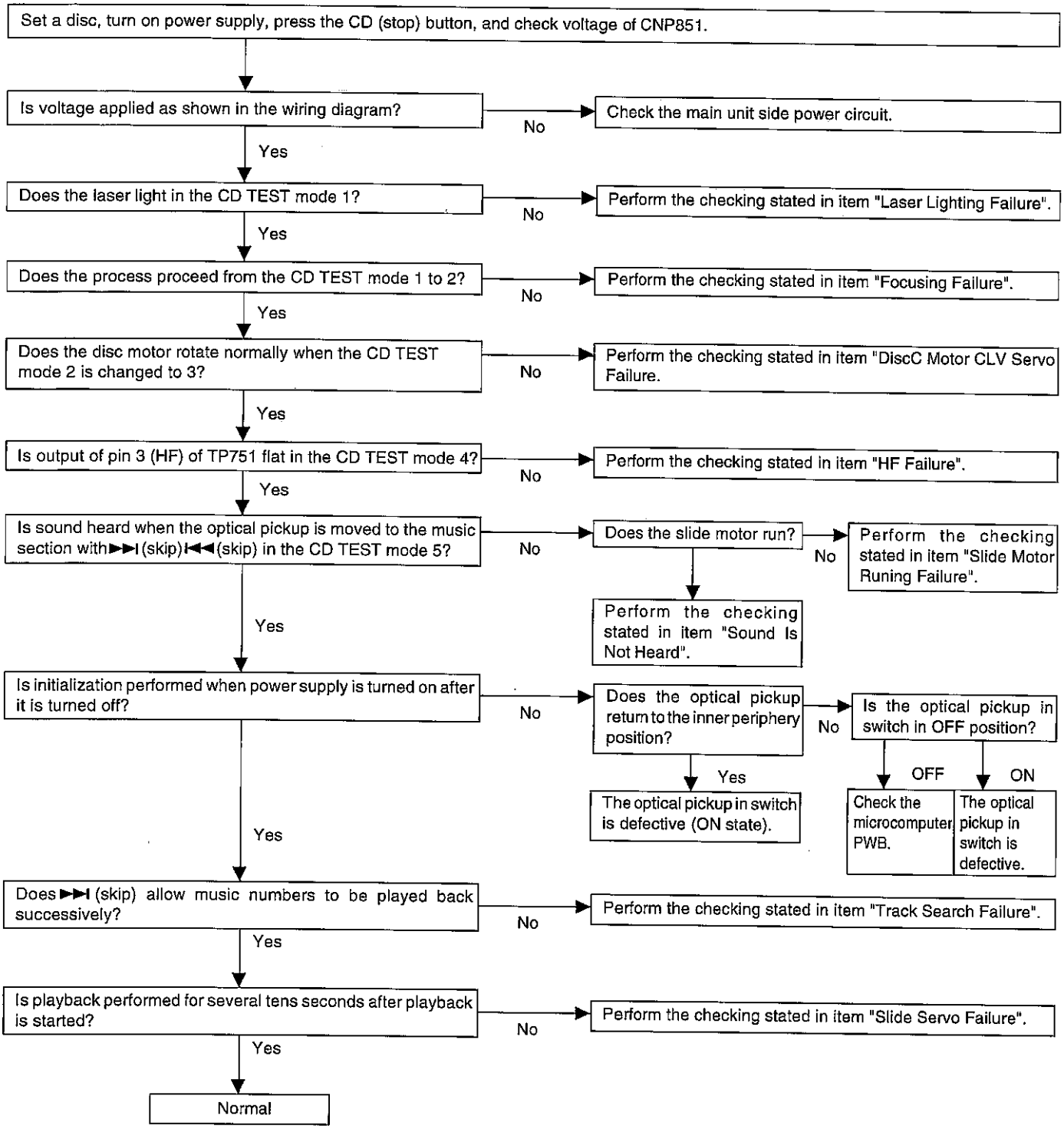


TROUBLE SHOOTING (CD SECTION)

When does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.


Set a disc, turn on power supply, press the CD (stop) button, and check voltage of CNP851.
Is voltage applied as shown in the wiring diagram?
No
Check the main unit side power circuit.
Yes
Does the laser light in the CD TEST mode 1?
No
Perform the checking stated in item "Laser Lighting Failure".
Yes
Does the process proceed from the CD TEST mode 1 to 2?
No
Perform the checking stated in item "Focusing Failure".
Yes
Does the disc motor rotate normally when the CD TEST mode 2 is changed to 3?
No
Perform the checking stated in item "DiscC Motor CLV Servo Failure.
Yes
Is output of pin 3 (HF) of TP751 flat in the CD TEST mode 4?
No
Perform the checking stated in item "HF Failure".
Yes
Is sound heard when the optical pickup is moved to the music section with ▶▶I (skip) I◀◀ (skip) in the CD TEST mode 5?
No
Does the slide motor run?
No
Perform the checking stated in item "Slide Motor Runing Failure".
Yes
Perform the checking stated in item "Sound Is Not Heard".
Yes
Is initialization performed when power supply is turned on after it is turned off?
No
Does the optical pickup return to the inner periphery position?
No
Is the optical pickup in switch in OFF position?
Yes
OFF
ON
The optical pickup in switch is defective (ON state).
Check the microcomputer PWB.
The optical pickup in switch is defective.
Yes
Does ▶▶I (skip) allow music numbers to be played back successively?
No
Perform the checking stated in item "Track Search Failure".
Yes
Is playback performed for several tens seconds after playback is started?
No
Perform the checking stated in item "Slide Servo Failure".
Yes
Normal

• Laser Lighting Failure

Is 5V applied to the CD LD ON terminal of pin 13 of IC901?
- No → IC901 is defective.
- Yes ↓

Is +4.0V applied to the emitter of Q751?
- No → Is +5V applied to the C777 side of R752?
  - Yes → R752 is defective.
  - Yes ↓
- Yes ↓

Is +1.8V applied to the collector of Q701?

Check the pin 2 of CNP851 and SERVO+5V line.
- No → Is +3.2V applied to the base of Q701?
  - No → Check between the base of Q751 and the pin 6 of IC750.
  - Yes ↓

Q751 is defective.

- Yes ↓

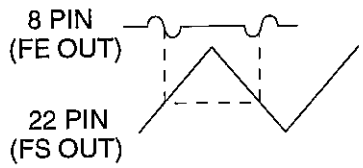
Is +1.8V applied to the pin 8 of BI751/CNS751?
- No → The PWB pattern between Q751 and the pin 8 of BI751/CNS751 was damaged.
- Yes ↓

Check BI751/CNS751. If it is normal, the optical pickup is defective.

• Focusing Failure

Is the optical pickup lens moved up or down when the disc is taken out?
- No → Perform the checking stated in item "Triangular Wave For Focus Servo Is Not Output".
- Yes ↓

Is the following waveform output to the pin 8 of IC750 when the disc is set?
- No → Check the optical pickup wire. If it is normal, the optical pickup is defective.
- Yes ↓



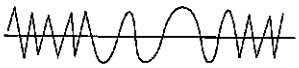
IC750 is defective.

○ HF Failure

Is signal (tracking error signal) output to the pin 4 of TP751 in the CD TEST mode 3?

→ Abnormal → Check BI751/CNS751. If it is normal, the optical pickup is defective.

Normal



Is the tracking gain adjustment VR752 set to minimum?

→ Yes → Adjust again the tracking gain.

No

Is there tracking output to the pin 17 of IC750 in the CD TEST mode 4?

→ No → Check the peripheral parts of IC750. If they are normal, IC750 is defective.

Yes

Is signal output between the pins 11 and 12 of IC700?

→ No → Check the peripheral parts of IC700. If they are normal, IC700 is defective.

Yes

Check the connection of optical pickup wire between IC700 and BI751/CNS751. If it is normal, the optical pickup is defective.

○ Track Search Failure

Is the slide motor activated with ▶▶I (skip)/ I◀◀ (skip) in the TEST mode?

→ No → Perform the checking stated in item "Slide Motor Running Failure".

Yes

Is the following waveform output to the pin 29 of IC750 in track jump state?

→ No → IC750 is defective.

* The state where the following waveform is output to the pin 17 of IC750 is referred to as track jump state.

Yes

Kick Pluse

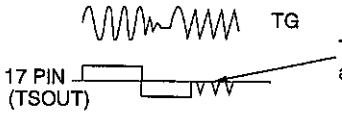
Synchronize on the pin 28 (JPI) of IC750.

Is the following waveform output to the pin 17 of IC750 in track search state?

→ No → IC750 is defective.

Yes

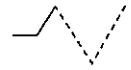
Check the display PWB.



• Triangular Wave For Focus Servo Is Not Output

Is +5V applied to the pin 36 of IC750?
- No → The +5V line of IC750 is defective.
- Yes ↓

Is triangular wave observed on the pin 22 of IC750?
- No → Is the following triangular waveform observed?
  - No → Check the pins 34 and 35 of IC750, R780, and C769. If these parts are normal, IC750 is defective. (Besides, check the line of pins 30, 31 and 33 of IC901.)
  - Yes (the wave swings once to + side.)



→ Check the periphery of pin 23 of IC750. If it is normal, IC750 is defective.

- Yes ↓ 1~2 sec.

Is triangular wave input into the pin 3 of IC700? (The same waveform as shown above)
- No → The signal cline connection between the pin 22 of IC750 and the pin 3 of IC700 is defective.
- Yes ↓

Is saw-toothed wave observed between the pins 1 and 2 of IC700?
- No → Check the peripheral parts of IC700 and power line. If they are normal, IC700 isdefective.
- Yes ↓

Saw-toothed waveform

Is saw-toothed wave observed between the pins 3 and 4 of BI751/CNS751? (The same waveform as shown above)
- Yes → Connection of BI751/CNS751 is defective or the optical pickup is defective.
- No ↓

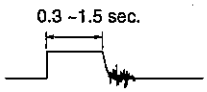
PWB pattern damage

• Disc Motor CLV Servo Failure

Does the disc motor run in the CD TEST mode 3?
- No → Is voltage observed for about 0.3 to 1.5 sec between the pins 17 and 18 of IC700 when the CD TEST mode 2 is changed to mode 3?
  - Yes → The disc motor is defective or its wire was broken.
  - No ↓

Does pulse appear after the pin 37 of IC800 remains in High state for 0.3 to 1.5 sec when the CD TEST mode 2 is changed to mode 3?
- No → IC800 is defective.
- Yes ↓

0.3 ~1.5 sec.



5V

0.3 ~ 1.5 sec.

→ IC700 is defective or its wire was broken.

Yes (Extremely high speed rotation) ↓

Does the eye pattern appear on the pin 3 of test point TP751? (Unclear waveform is allowable.)
- No → Check again that the objective lens of optical pickup is not contaminated. If contamination is found, clean.
  Check the connection between the pin 41 of IC750 and the pin 19 of IC800.If it is normal, the optical pickup is defective.
- Yes ↓

Is eye pattern Vp-p1.5V input into the pin 19 of IC800?
- No → Check the PWB pattern and C806.
- Yes ↓

IC800 is defective (replace after checking the peripheral parts).

○ Sound Is Not Heard

Is digital signal output from the pin 5 (digital OUT) of CNP851?
- No → Check the pin 28 of IC800.
- Yes ↓

Is digital signal applied to the pin 8 of MD PWB CNS1701?
- No → Check the connection of CD and MD.
- Yes ↓

Is audio signal output from the pins 22 and 23 of IC1701?
- No → Check the connection of IC1201 and IC1701.
- Yes ↓

OK

○ Slide Motor Running Failure

Is slide feed signal output between the pin 20 of IC750 and 1/2VCC when the ▶▶| (skip)/ |◀◀ (skip) button is pressed in the CD test mode?
- No → Check the connection of peripheral parts of IC750. If it is normal, IC750 is defective.
- Yes ↓

Is slide feed signal output between the pins 26 and 27 of IC700?
- No → Check the connection between the pin 25 of IC700 and the pin 20 of IC750. If it is normal, IC700 is defective.
- Yes ↓

Is slide feed voltage applied to both ends of slide motor?
- No → Check the PWB pattern.
- Yes ↓

Check the slide motor. The slide motor is defective if the slide motor fails to run when DC2.0V is applied to the terminal of slide motor.

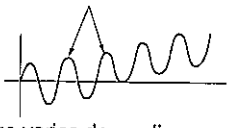
○ Slide Servo Failure

Is slide control voltage waveform shown right input into the pin 18 of IC750 during playback?
- No → Check the connection of PWB pattern and parts between the pins 17 and 18 of IC750.
- Yes ↓

Is waveform shown right output to the pin 20 of IC750?
- No → IC750 is defective.
- Yes ↓

The slide servo system is not defective. Redo check from the beginning.

Rotation cycle of disc motor



Voltage varies depending on eccentricity.

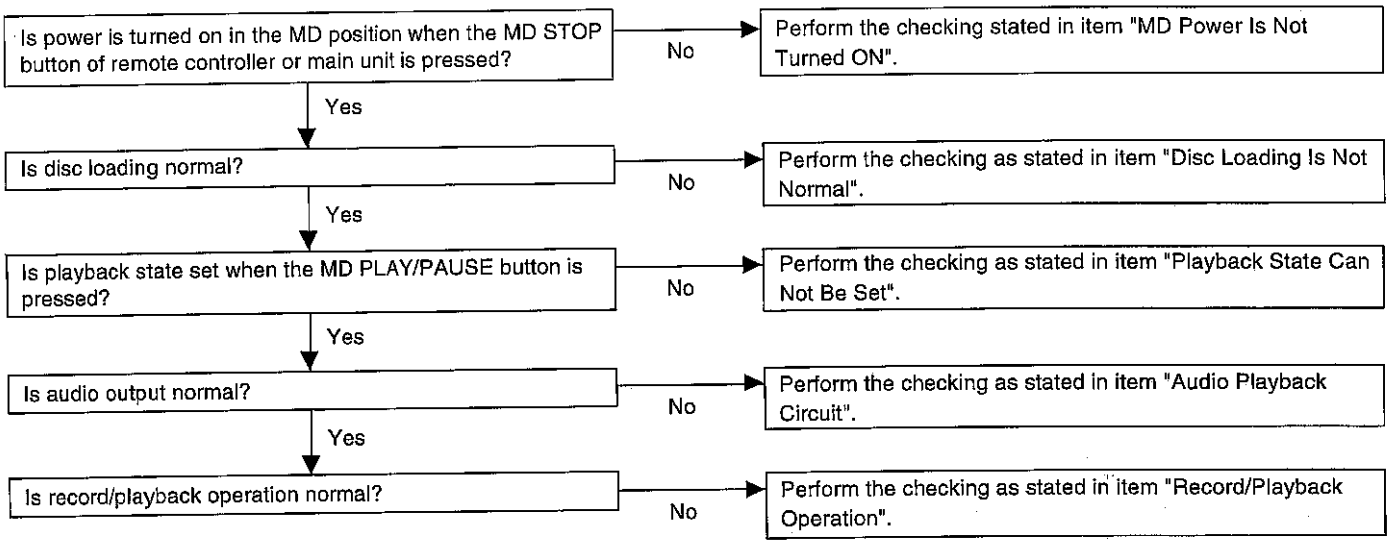
Slide control voltage waveform

TROUBLE SHOOTING (MD SECTION)

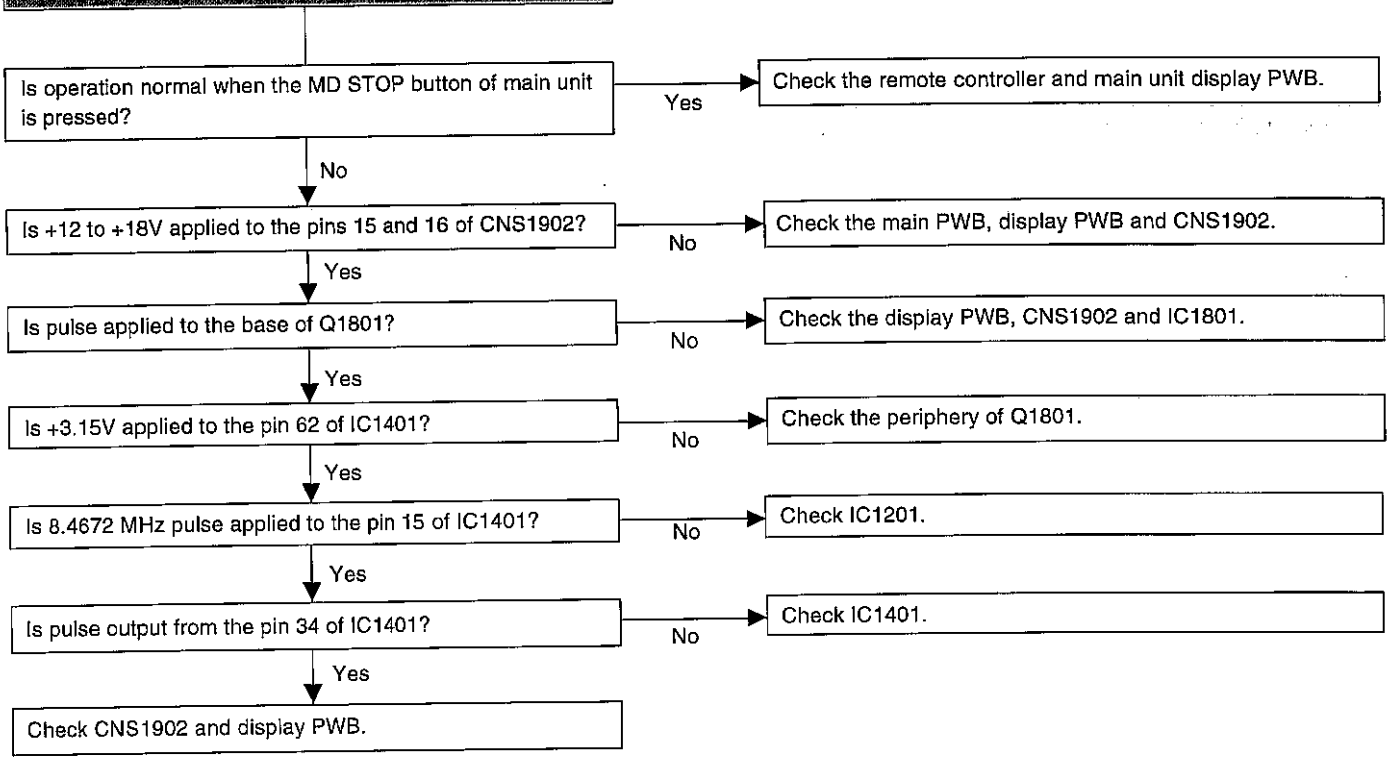
When does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

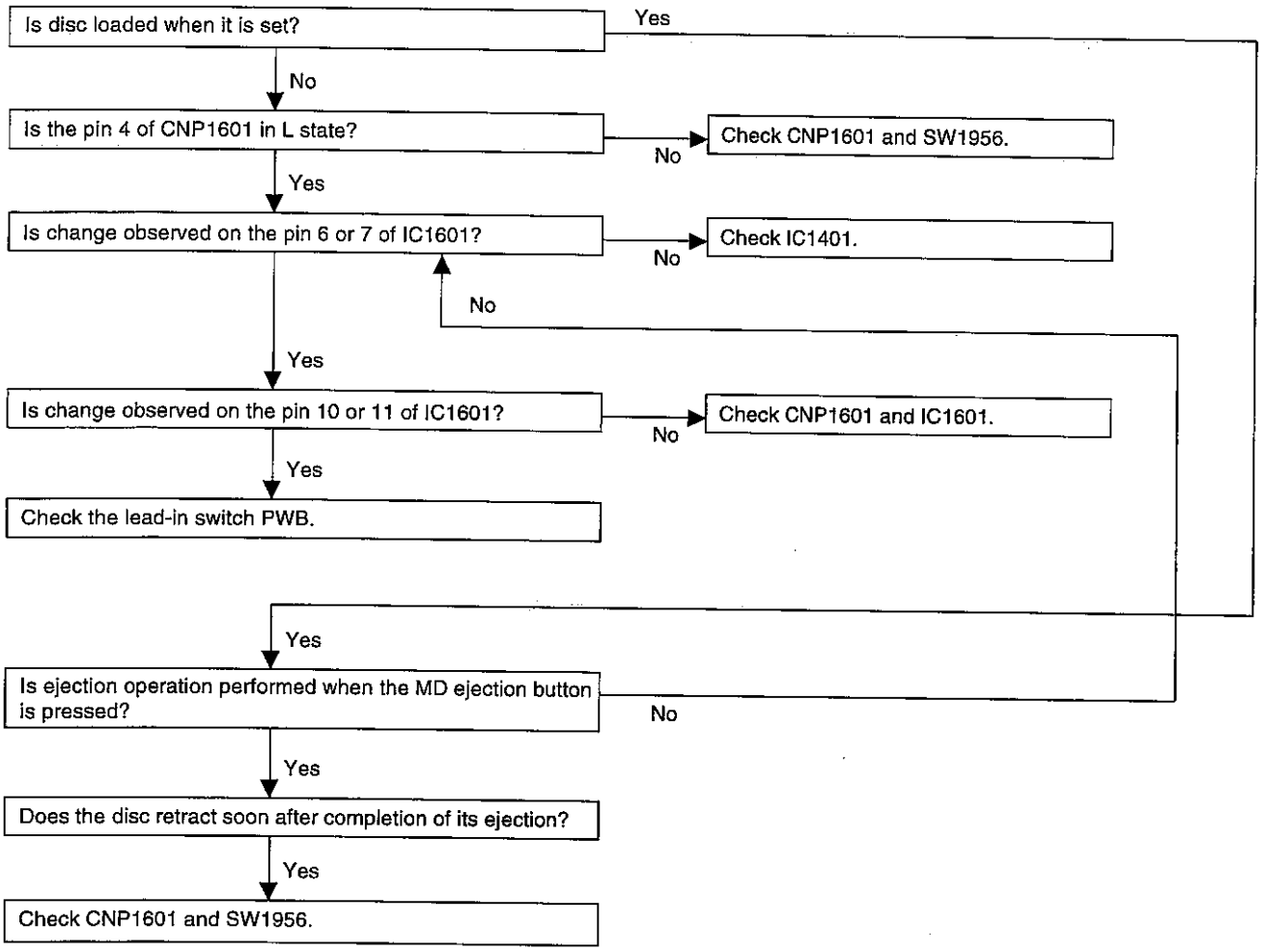
Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.


Is power is turned on in the MD position when the MD STOP button of remote controller or main unit is pressed?
No
Perform the checking stated in item "MD Power Is Not Turned ON".
Yes
Is disc loading normal?
No
Perform the checking as stated in item "Disc Loading Is Not Normal".
Yes
Is playback state set when the MD PLAY/PAUSE button is pressed?
No
Perform the checking as stated in item "Playback State Can Not Be Set".
Yes
Is audio output normal?
No
Perform the checking as stated in item "Audio Playback Circuit".
Yes
Is record/playback operation normal?
No
Perform the checking as stated in item "Record/Playback Operation".

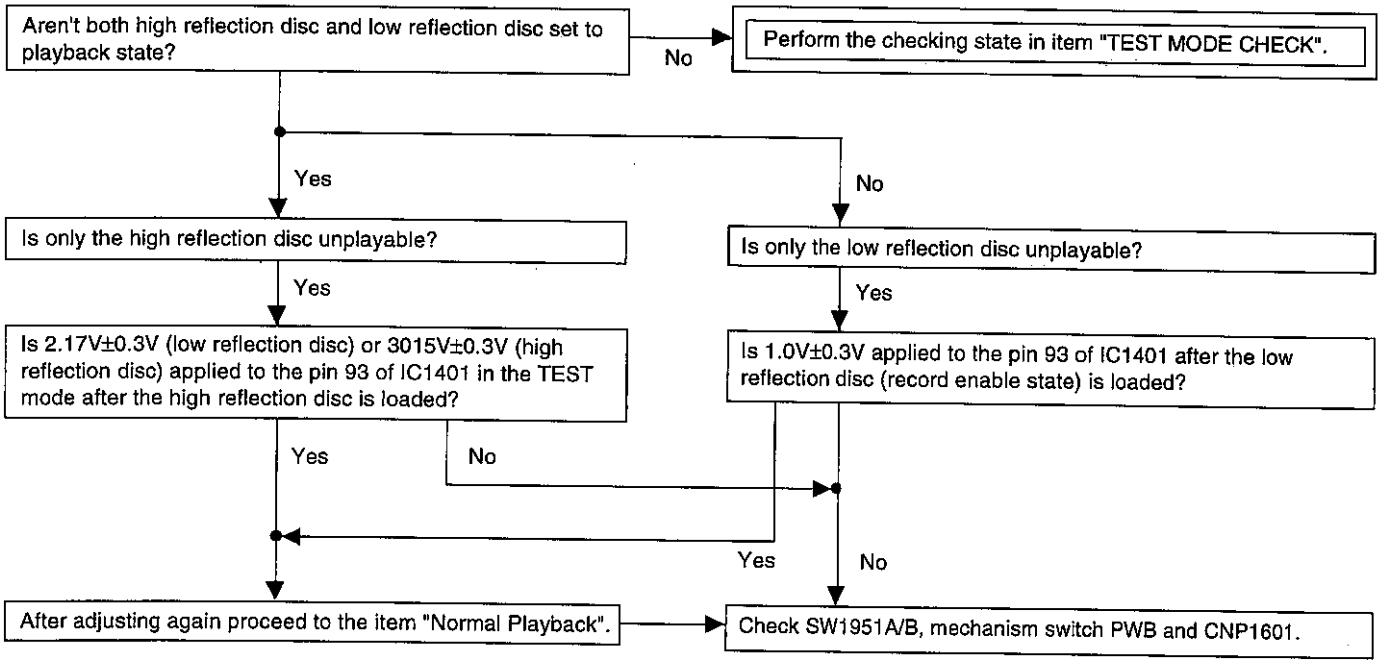
• MD Power Cannot Be Turned ON


Is operation normal when the MD STOP button of main unit is pressed?
Yes
Check the remote controller and main unit display PWB.
No
Is +12 to +18V applied to the pins 15 and 16 of CNS1902?
No
Check the main PWB, display PWB and CNS1902.
Yes
Is pulse applied to the base of Q1801?
No
Check the display PWB, CNS1902 and IC1801.
Yes
Is +3.15V applied to the pin 62 of IC1401?
No
Check the periphery of Q1801.
Yes
Is 8.4672 MHz pulse applied to the pin 15 of IC1401?
No
Check IC1201.
Yes
Is pulse output from the pin 34 of IC1401?
No
Check IC1401.
Yes
Check CNS1902 and display PWB.

○ Disc Loading Is Not Normal

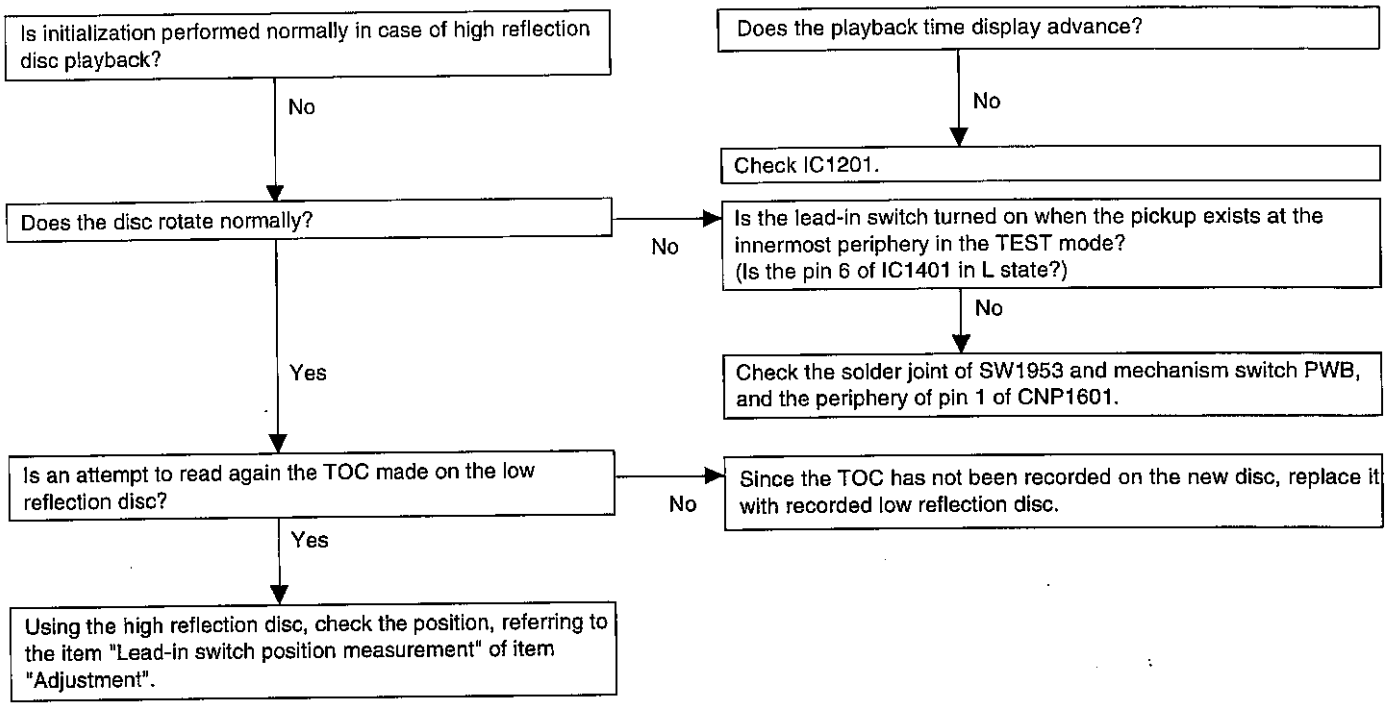


○ Playback State Cannot Be Set


Aren't both high reflection disc and low reflection disc set to playback state?
No
Perform the checking state in item "TEST MODE CHECK".
Yes
No
Is only the high reflection disc unplayable?
Is only the low reflection disc unplayable?
Yes
Yes
Is 2.17V±0.3V (low reflection disc) or 3015V±0.3V (high reflection disc) applied to the pin 93 of IC1401 in the TEST mode after the high reflection disc is loaded?
Is 1.0V±0.3V applied to the pin 93 of IC1401 after the low reflection disc (record enable state) is loaded?
Yes
No
Yes
No
After adjusting again proceed to the item "Normal Playback".
Check SW1951A/B, mechanism switch PWB and CNP1601.

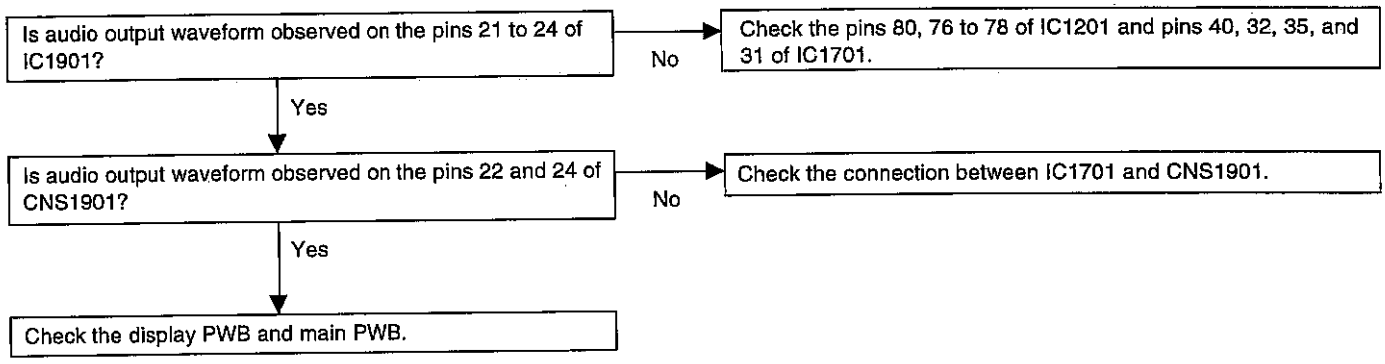
• Normal Playback

IWhen the value of EEPROM has been proved to be normal in the TEST mode


Is initialization performed normally in case of high reflection disc playback?
No
Does the disc rotate normally?
No
Is the lead-in switch turned on when the pickup exists at the innermost periphery in the TEST mode? (Is the pin 6 of IC1401 in L state?)
No
Check the solder joint of SW1953 and mechanism switch PWB, and the periphery of pin 1 of CNP1601.
Yes
Is an attempt to read again the TOC made on the low reflection disc?
No
Since the TOC has not been recorded on the new disc, replace it with recorded low reflection disc.
Yes
Using the high reflection disc, check the position, referring to the item "Lead-in switch position measurement" of item "Adjustment".
Does the playback time display advance?
No
Check IC1201.

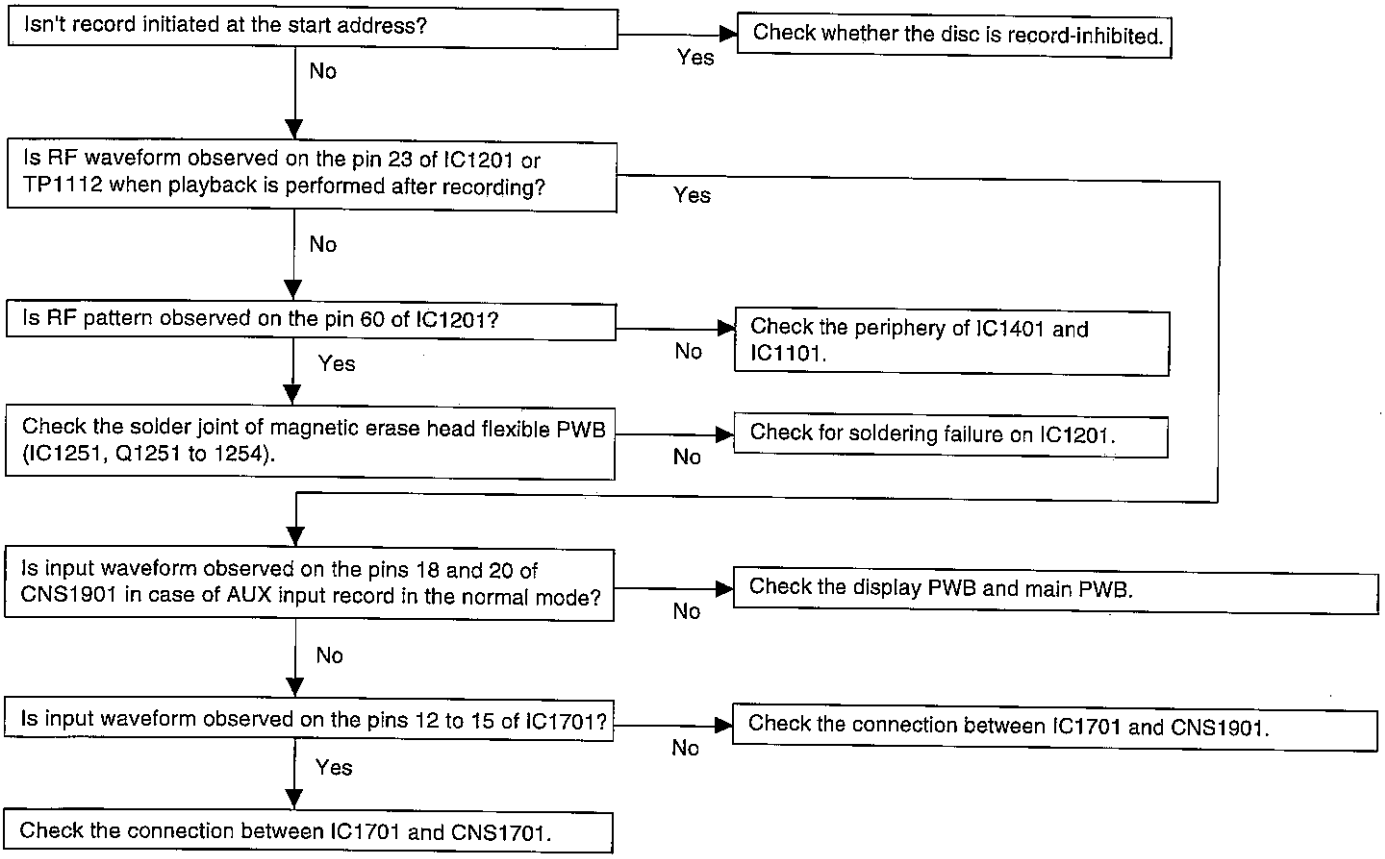
○ Audio Playback Circuit

When sound is not heard although the playback time display advances during playback in the normal mode

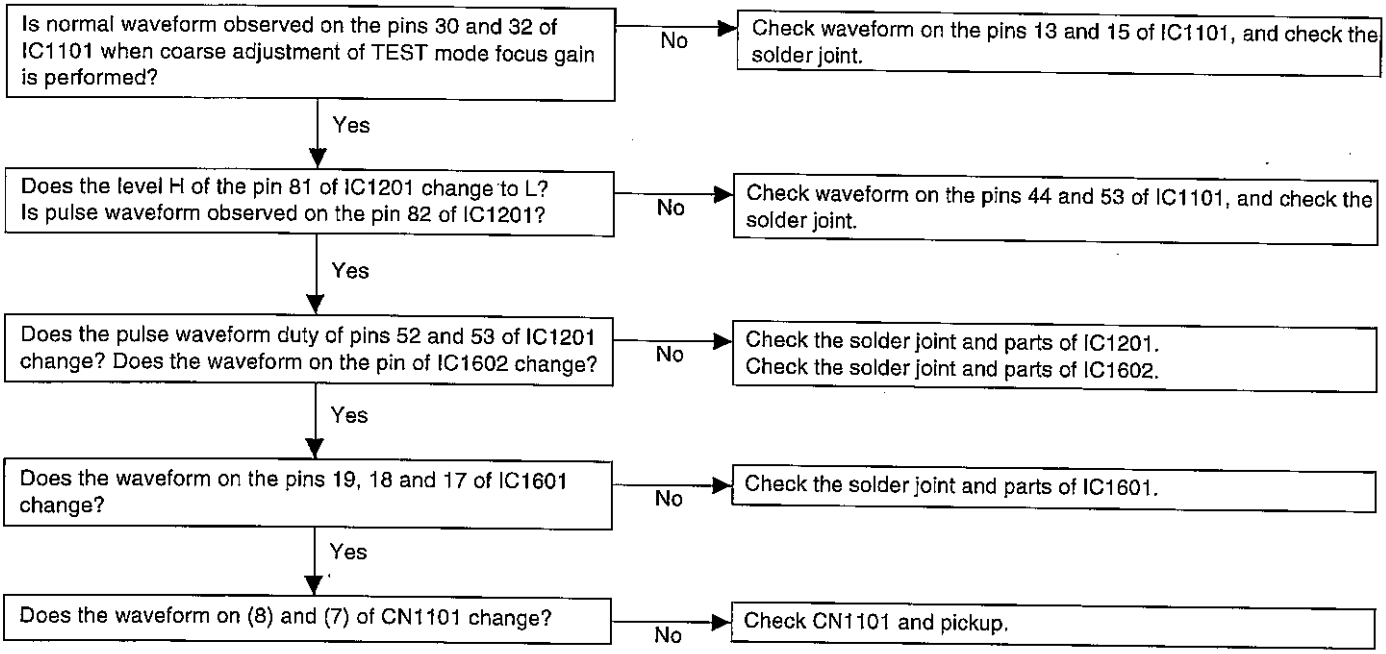

Is audio output waveform observed on the pins 21 to 24 of IC1901?
No
Check the pins 80, 76 to 78 of IC1201 and pins 40, 32, 35, and 31 of IC1701.
Yes
Is audio output waveform observed on the pins 22 and 24 of CNS1901?
No
Check the connection between IC1701 and CNS1901.
Yes
Check the display PWB and main PWB.

○ Record/Playback Operation

Load a low reflection disc, check audio output by performing normal mode playback, and set the record/playback TEST mode.


Isn't record initiated at the start address?
Yes
Check whether the disc is record-inhibited.
No
Is RF waveform observed on the pin 23 of IC1201 or TP1112 when playback is performed after recording?
Yes
No
Is RF pattern observed on the pin 60 of IC1201?
No
Check the periphery of IC1401 and IC1101.
Yes
Check the solder joint of magnetic erase head flexible PWB (IC1251, Q1251 to 1254).
No
Check for soldering failure on IC1201.
Is input waveform observed on the pins 18 and 20 of CNS1901 in case of AUX input record in the normal mode?
No
Check the display PWB and main PWB.
No
Is input waveform observed on the pins 12 to 15 of IC1701?
No
Check the connection between IC1701 and CNS1901.
Yes
Check the connection between IC1701 and CNS1701.

○ Focus Servo Failure


Is normal waveform observed on the pins 30 and 32 of IC1101 when coarse adjustment of TEST mode focus gain is performed?
No
Check waveform on the pins 13 and 15 of IC1101, and check the solder joint.
Yes
Does the level H of the pin 81 of IC1201 change to L? Is pulse waveform observed on the pin 82 of IC1201?
No
Check waveform on the pins 44 and 53 of IC1101, and check the solder joint.
Yes
Does the pulse waveform duty of pins 52 and 53 of IC1201 change? Does the waveform on the pin of IC1602 change?
No
Check the solder joint and parts of IC1201. Check the solder joint and parts of IC1602.
Yes
Does the waveform on the pins 19, 18 and 17 of IC1601 change?
No
Check the solder joint and parts of IC1601.
Yes
Does the waveform on (8) and (7) of CN1101 change?
No
Check CN1101 and pickup.

• Disc Motor Rotation Failure

Is waveform observed on the pins 58 and 59 of IC1201 and pin 1 of IC1603 when coarse adjustment of TEST mode focus gain is performed?
- No → Check the pins 58 and 59 of IC1201, solder joint and parts of IC1603 and peripheral circuit.
- Yes ↓

Is waveform observed on the pins 11 and 12 of IC1601 and pins 3 and 4 of CNP1602?
- No → Check the solder joint of PWB of disc motor assembly (IC1601, CNP1601).
- Yes ↓

Does voltage on the pins 3 and 4 of flexible PWB of disc motor assembly change?
- Yes ↓

Replace the disc motor assembly.

• Tracking Servo Failure

Is waveform observed on the pin 1 of IC1602, pins 15 and 16 of IC1601 and pins 4 and 6 of CN1101 when adjustment of TEST mode focus gain is performed?
- No → Check the pins 64 and 65 of IC1201 and the solder joint of IC1601, IV1602, and CN1101.
- Yes ↓

Replace the optical pickup.

• Slide Servo Failure

Does the pickup move toward the outer and inner periphery when the ▶▶/◀◀ button is pressed in the TEST mode?
- No → Check waveform on the pins 56 and 57 of IC1201 and pin 7 of IC1603, check the peripheral parts. Check the solder joint.
- Yes ↓

Does waveform on the pins 56 and 57 of IC1201 change when the ▶▶/◀◀ button is pressed? Does waveform on the pin 7 of IC1603 change?
- No → Check waveform on the pins 56 and 57 of IC1201 and the pin 7 of IC1603. Check the peripheral parts. Check the solder joint.
- Yes ↓

Does waveform on the pins 13 and 14 of IC1601 and the pins 1 and 2 of CN1601 change when the ▶▶/◀◀ button is pressed?
- No → Check the solder joint of IC1601 and CNP1601.
- Yes ↓

Does voltage on the "+" and "—" terminals of slide motor change when the ▶▶/◀◀ button is pressed?
- No → Check the solder joint connected to the slide motor. Check for wire breakage.
- Yes ↓

Replace the slide motor.

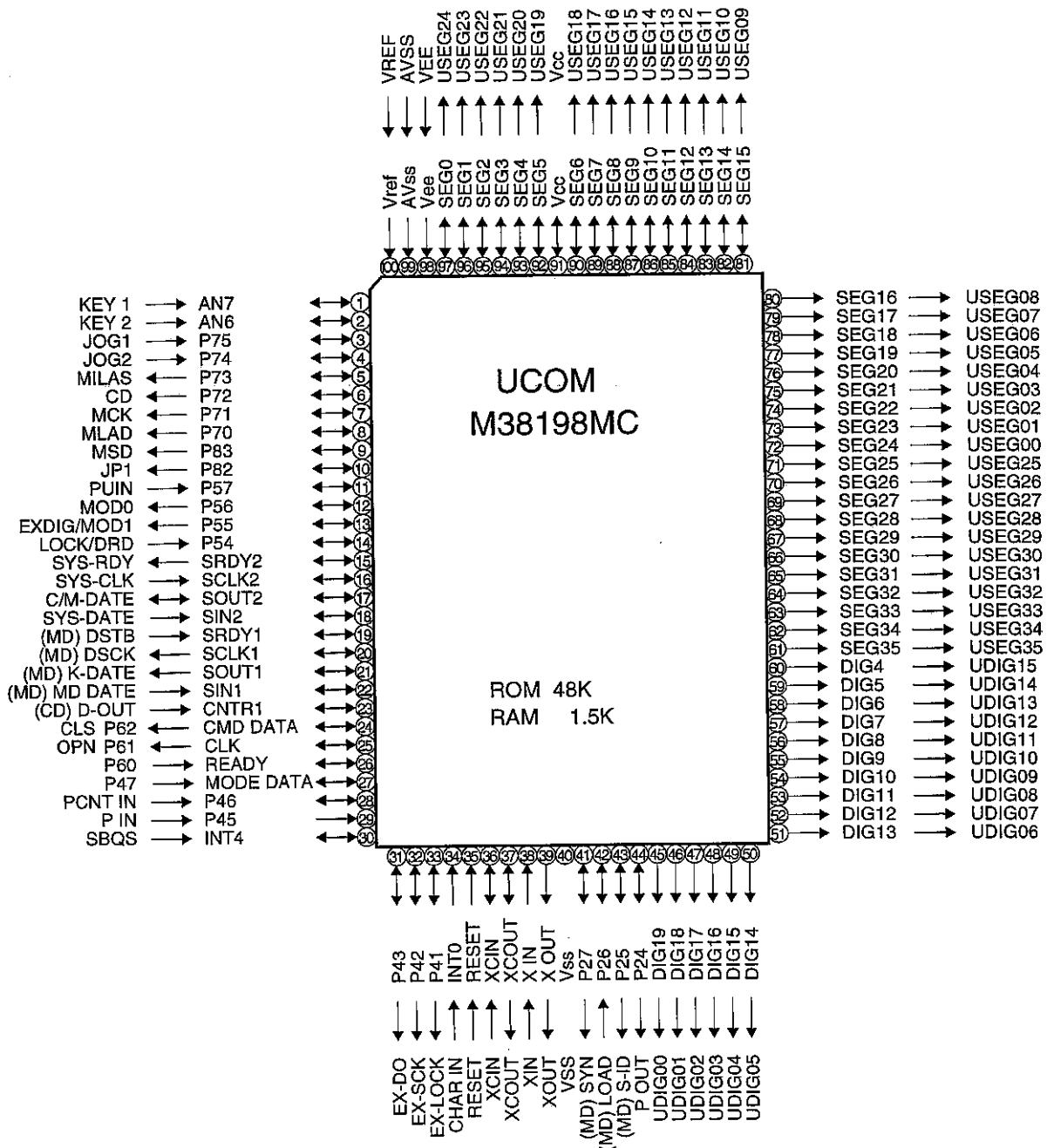
FUNCTION TABLE OF IC

ICA101 RH-iX0169AWZZ(IX0169AW):MD/CD Microcomputer (1/2)

Pin No.	Terminal Name	Port Name	Input/ Output	Function
1,2	KEY1,2	P77,76/AN7,6	Input	Input of various key signals (A/Din)
3,4	JOG1,2	P75,74/AN5,4	Input	Input of JOG dial data
5	MLAS	P73/AN3	Output	CD servo IC communication latch signal
6	CD	P72/AN2	Output	CD power control
7	MCK	P71/AN1	Output	CD servo/DSP communication sync clock
8	MLAD	P70/AN0	Output	CD_DSP communication latch signal
9	MSD	PB3	Output	CD servo/DSP communication data
10	JP1	PB2/DA	Output	CD jump signal Normal: H Direct inversion of jump pulse: L
11	PUIN	P57/SRDY3/AN15	Input	CD pickup position detection Innermost periphery position: L * When L is set, the slide must be set to off quickly.
12	MOD0	P56/SCLK3/AN14	Outout	CD_DSP communication data item selection signal
13	EXDIG/MOD1	P55/SOUT3/AN13	Output	CD DSP communication MOD1 and external DIG IN ON/OFF is controlled
14	LOCK/DRD	P54/SIN3/AN12	Input	CD disc rotation detection and frame sync detection
15	SYS-RDY	P53/SRDY2/AN11	Output	Port for communication with SYS microcomputer CDMD microcomputer transmission ready signal
16	SYS-CLK	P52/SCLK2/AN10	Input	Port for communication with SYS microcomputer Clock signal for synchronizing of reception from SYS microcomputer
17	CM-DATA	P51/SOUT2/AN9	Output	Port for communication with SYS microcomputer CDMD microcomputer transmission data signal
18	SYS-DATA	P50/SIN2/AN8	Input	Port for communication with SYS microcomputer Reception data signal (reception from CDMD microcomputer)
19	MD DSTB	P67/SRDY1/ CS/SCLK12	Input	Serial interface with MD microcomputer Strobe signal for each 32 bytes
20	MD DSCK	P66/SCLK11	Output	Serial interface with MD microcomputer Clock signal for synchronization
21	MD K-DATA	P65/SOUT1	Output	Serial interface with MD microcomputer SYS microcomputer transmission data
22	MD MD-DATA	P64/SIN1	Input	Serial interface with MD microcomputer MD microcomputer transmission data
23	D-OUT	P63/CNTR1	Input	Detection of data sent from CD servo 1. Focus check 2. Tc count pulse input
24	CMD-DATA	P62/CNTR0	Output	Changer microcomputer interface serial data Transmission command data
25	CLK	P61/PWM	Output	Changer microcomputer interface serial data Transmission sync clock
26	READY	P60	Input	Changer microcomputer interface serial data Reception ready
27	MODE DATA	P47/T3 OUT	Input	Changer microcomputer interface serial data Reception mode data
28	PCNT-IN	P46/T1 OUT	Input	Power control signal detection Power ON=H Power OFF=L
29	P IN	P45/INT1/ZCR	Input	Power failure detection L: Power failure H: Power supply
30	SBQS	P44/INT4	Input	CD DSP serial interface Frame sync signal sent from CD_DSP
31	EX-DO	P43/INT3	Output	Control port for character dubbing with external equipment
32	EX-SCK	P42/INT2	Output	Serial/parallel IC serial interface (For A/D_SW control of external equipment)
33	EX-LCK	P41	Output	Serial/parallel IC serial interface (For A/D_SW control of external equipment)
34	CHAR-IN	P40/INT0	Input	CHAR-IN; Reception data signal sent from external equipment
35	RESET	RESET	Input	Microcomputer reset signal input
36,37	XCIN,XCOUT	PB1,0/XCIN,XCOUT	Input/Output	32.68 kHz quartz oscillator
38,39	XIN,XOUT	XIN,XOUT	Input/Output	8 MHz ceramic oscillation
40	VSS	VSS	—	GND terminal
41	MD SYN	P27CMOS	Output	CD sync signal in case of MD sync recording
42	MD LOAD	P26TTLin	Input	MD loading SW detection DISC IN: L
43	MD S-ID	P25CMOS	Output	MD track mark signal and MD ON/OFF control signal
44	P OUT	P24CMOS	Output	MD microcomputer reset signal
45~54	UDIG00~ UDIG09	P23/DIG19~ P12/DIG10	—	Digit for FL direct control
55~60	UDIG10~ UDIG15	P11/SEG41/DIG9~ P04/SEG36/DIG4	—	Digit for FL direct control
61~64	USEG35~ USEG32	P03/SEG35/DIG3~ P00/SEG32/DIG0	—	Digit for FL direct control
65~71	USEG31~	P37/SEG31~ P31/SEG25	—	Digit for FL direct control

ICA101 RH-iX0169AWZZ(IX0169AW):MD/CD Microcomputer (2/2)

Pin No.	Terminal Name	Port Name	Input/ Output	Function
72	USEG00	P30/SEG24	—	Digit for FL direct control
73~88	USEG01~ USEG16	P97/SEG23~ P80/SEG8	—	Digit for FL direct control
89,90	USEG17,18	PA7,6/SEG7,6	—	Digit for FL direct control
91	VCC	VCC	—	+5V
92~97	USEG19~ USEG24	PA5/SEG5~ PA0/SEG0	—	Digit for FL direct control
98	VEE	VEE	—	−30V
99	AVSS	AVSS	—	GND
100	VREF	VREF	—	+5V


VREF AVSS VEE USEG24 USEG23 USEG22 USEG21 USEG20 USEG19 Vcc USEG18 USEG17 USEG16 USEG15 USEG14 USEG13 USEG12 USEG11 USEG10 USEG09
Vref AVss Vee SEG0 SEG1 SEG2 SEG3 SEG4 SEG5 Vcc SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15
100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81
KEY 1 → AN7 1
KEY 2 → AN6 2
JOG1 → P75 3
JOG2 → P74 4
MILAS ← P73 5
CD ← P72 6
MCK ← P71 7
MLAD ← P70 8
MSD ← P83 9
JP1 ← P82 10
PUIN → P57 11
MOD0 ← P56 12
EXDIG/MOD1 ← P55 13
LOCK/DRD → P54 14
SYS-RDY ← SRDY2 15
SYS-CLK → SCLK2 16
C/M-DATE ↔ SOUT2 17
SYS-DATE → SIN2 18
(MD) DSTB → SRDY1 19
(MD) DSCK ← SCLK1 20
(MD) K-DATE ← SOUT1 21
(MD) MD DATE → SIN1 22
(CD) D-OUT → CNTR1 23
CLS P62 ← CMD DATA 24
OPN P61 ← CLK 25
P60 → READY 26
P47 → MODE DATA 27
PCNT IN → P46 28
P IN → P45 29
SBQS → INT4 30
UCOM
M38198MC
ROM 48K
RAM 1.5K
SEG16 → USEG08 80
SEG17 → USEG07 79
SEG18 → USEG06 78
SEG19 → USEG05 77
SEG20 → USEG04 76
SEG21 → USEG03 75
SEG22 → USEG02 74
SEG23 → USEG01 73
SEG24 → USEG00 72
SEG25 → USEG25 71
SEG26 → USEG26 70
SEG27 → USEG27 69
SEG28 → USEG28 68
SEG29 → USEG29 67
SEG30 → USEG30 66
SEG31 → USEG31 65
SEG32 → USEG32 64
SEG33 → USEG33 63
SEG34 → USEG34 62
SEG35 → USEG35 61
DIG4 → UDIG15 60
DIG5 → UDIG14 59
DIG6 → UDIG13 58
DIG7 → UDIG12 57
DIG8 → UDIG11 56
DIG9 → UDIG10 55
DIG10 → UDIG09 54
DIG11 → UDIG08 53
DIG12 → UDIG07 52
DIG13 → UDIG06 51
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
P43 P42 P41 INT0 RESET XCIN XCOUT X IN X OUT Vss P27 P26 P25 P24 DIG19 DIG18 DIG17 DIG16 DIG15 DIG14
EX-DO EX-SCK EX-LOCK CHAR IN RESET XCIN XCOUT XIN XOUT VSS (MD) SYN (MD) LOAD (MD) S-ID P OUT UDIG00 UDIG01 UDIG02 UDIG03 UDIG04 UDIG05

ICB101 RH-iX0177AWZZ(iX0177AW):System Microcomputer

Pin No.	Terminal Name	Port Name	Input/ Output	Function
1~3	P72~70/KR6~4	SW-B,SW-C,SW-D	Input	Main/sub-tray detection switch No.2, 3, 4 There are four main/sub-tray switches, namely SW-A, SW-B, SW-C, and SW-D, which detect main/sub-tray ejection/close and retract/setting.
4,5	P63,62/KR2,3	M-CONT1,M-CONT2	Output	Control terminals No.1 and 2 of main cam motor TA7291S of main cam motor driver is controlled at M-CONT1/2.
6,7	P61,60/KR1,0	M-CONT3,M-CONT4	Output	Control terminals No.1 and 2 of main/sub-tray motor TA7291S of main/sub-tray motor driver is controlled at M-CONT3 and 4.
8	P53	V-SEL	Output	Voltage supplied to the main cam motor and main/sub-tray motor is changed.
9*~11*	P52~50	LED3~1	Output	Indicator of LED DISC 1, 2 and 3 for position indicator
12	NC		—	
13~15	P43~41		Input	PULL DOWN to input GND of P40 and 4-bit control
16	P40	CHK2	Input	Press time after tray SW change H=16m sec l=24m sec
17	VSS	GND	—	Power terminal GND (0V)
18	XT1	XT1	Input	Sub-clock for clock
19*	XT2	XT2	Output	Not used
20	RESET	RESET	Input	If L state is held for more than 1.33USEC (1 machine cycle), resetting state is set (in case of 3 MHz oscillation).
21	X1	CLOCK IN1	Input	Main clock input
22	X2	CLOCK IN2	Output	Main clock output
23~26	P33~30	KEY IN3~KEY IN0	Input	Operation key matrix input 3 to 0
27*	P81	KEY OUT4	Output	Operation key matrix strobe output 4
28	P80	READY	Output	Start point and end point signal of two-way communication with system microcomputer
29	P03/SI/SB I	COMAND DATA	Input	Command data input from system microcomputer
30	P02/SB O/SO	MODE DATA	Output	Status notification data output to system microcomputer
31	P01/SCK	CLOCK	Input	Timing signal of two-way communication with system microcomputer Data is updated in both system microcomputer and mechanism microcomputer at fall of this signal.
32	P00/INT4		—	Judgment in case of microcomputer resetting
33	P10/INT1	SW-1	Input	Switch No.1 for main cam detection
34*	NC		—	
35~37	P11~13/INT1~3	SW-2~SW-4	Input	Switch No. 2, 3 and 4 for main cam detection There are four switches for main cam detection, namely SW1, SW2, SW3 and SW4 which detect the position of main cam.
38	IC	D +5V	—	+5V Direct connection
39	VDD	D +5V	—	Power terminal +5V
40*	P23/BUZ	KEY OUT3	Output	Operation key matrix strobe output 3
41*	P22/PCL	KEY OUT2	Output	Operation key matrix strobe output 2
42*	P21/PT01	KEY OUT1	Input	Operation key matrix strobe output 1
43*	P20/PT00	KEY OUT0	Output	Operation key matrix strobe output 0 Key matrix of 20 keys is formed with KEY IN 0, 1, 2, and 3 and KEY OUT 0, 1, 2, 3, and 4.
44	P73/KR7	SW-A	Output	Switch No.4 for main/sub-tray detection

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

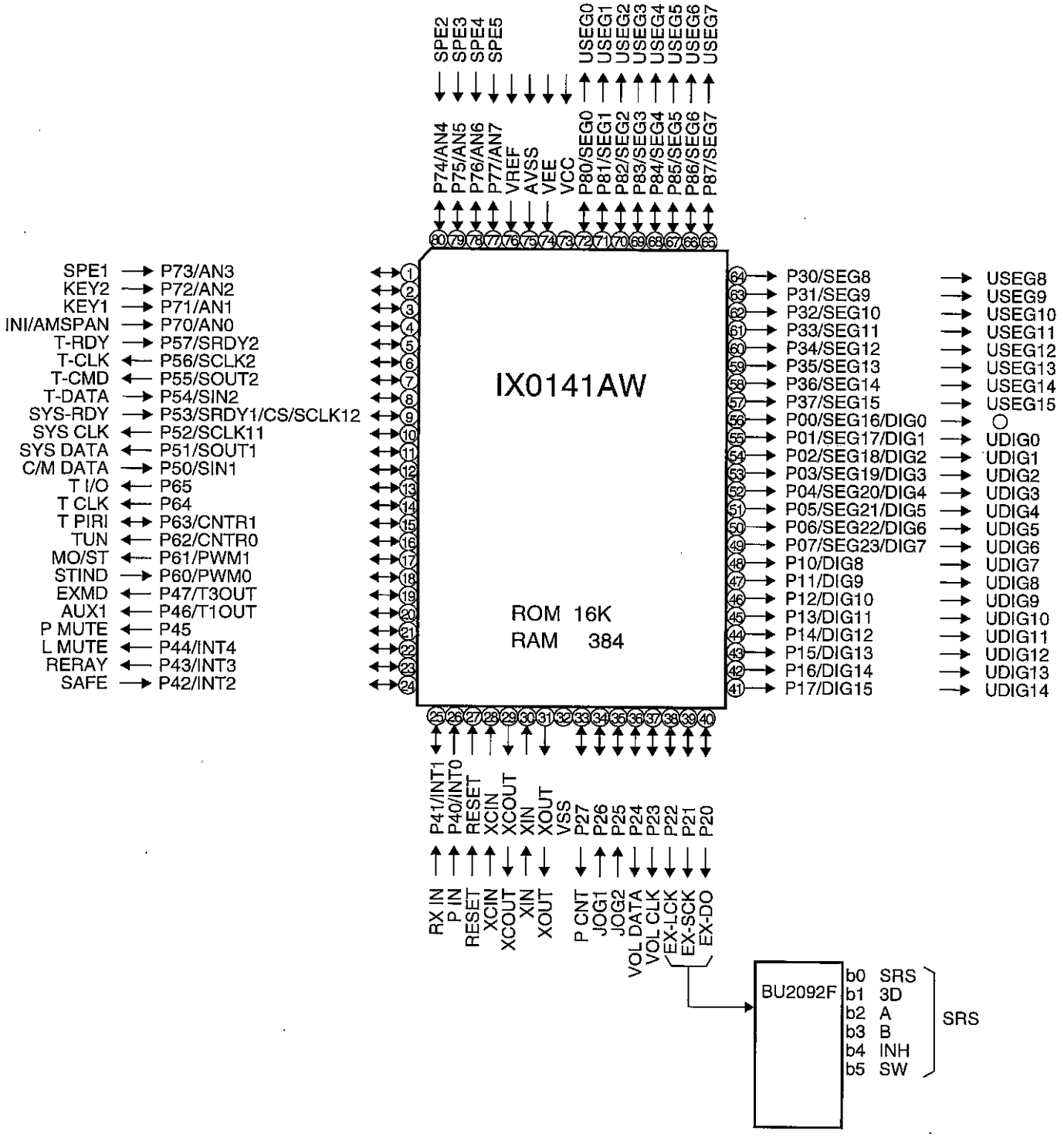
IC901 RH-iX0141AWZZ(IX0141AW):System Microcomputer (1/2)

Pin No.	Terminal Name	Port Name	Input/ Output	Function
1	SPE1	P73/AN3	Input	Analog data input 1 for spectrum analyzer
2,3	KEY1,2	P72,71/AN2,1	Input	Key input (analog data)
4	INI/AMSPAN	P70/AN0	Input	Input of analog data for initialization and AM span selection analog data for exported tuner
5	T-RDY	P57/SRDY2	Input	Serial communication with tape microcomputer Reception ready signal (reception from tape microcomputer)
6	T-CLK	P56/SCLK2	Output	Serial communication with tape microcomputer SYS microcomputer transmission sync clock
7	T-CMD	P55/SOUT2	Output	Serial communication with tape microcomputer SYS microcomputer transmission data
8	T-DATA	P54/SIN2	Input	Serial communication with tape microcomputer Data received from tape microcomputer
9	SYS-RDY	P53/SRDY1/CS/ SCLK12	Input	Port for communication with CDMD microcomputer Reception ready signal (reception from CDMD microcomputer)
10	SYS-CLK	P52/SCLK11	Output	Port for communication with CDMD microcomputer SYS microcomputer transmission clock signal
11	SYS-DATA	P51/SOUT1	Output	Port for communication with CDMD microcomputer Data sent from SYS microcomputer
12	CM-DATA	P50/SIN1	Inout	Port for communication with CDMD microcomputer Data received from CDMD microcomputer
13	T-I/O	P65	Input/Output	Tuner PLL-IC TC9216P control port Two-way communication data
14	T-CLK	P64	Output	Tuner PLL-IC TC9216P control port SYS microcomputer transmission sync clock signal
15	T-PIRI	P63/CNTR1	Output	Tuner PLL-IC TC9216P control port SYS microcomputer transmission period signal
16	TUN	P62/CNTR0	Output	Mute signal of tuner audio signal Other than tuner function: L Tuner function: H
17	MO/ST	P61/PWM1	Output	Tuner MONO/STEREO selection signal MONO=H STEREO=L
18	ST IND	P60/PWM0	Input	Tuner stereo IND input L: ST on H: ST off
19	EX-MD	P47/T3OUT	Output	H: During MD to MD character dubbing (NAME COPY bit of CM DATA is 1).
20	AUX1	P46/T1OUT	Output	AUX1 function: H
21	P_MUTE	P45	Output	Power mute control signal Mute on: L Mute off: H
22	L_MUTE	P44/INT4	Output	Line mute control signal Mute on: L Mute off: H
23	RERAY	P43/INT3	Output	Relay selection control signal for speaker Relay on: L (MUTE_ON) Relay off: L
24	SAFE	P42/INT2	Input	Power_IC overcurrent signal detection Normal: H Abnormal: L
25	RX-IN	P41/INT1	Input	Remote control signal input (SHARP code format)
26	P-IN	P40/INT0	Input	Power failure detection Normal: H Power failure: L
27	RESET	RESET	Input	Reset signal detection Reset: L Normal: H
28,29	XCIN,XCOUT	XCIN,XCOUT	Input/Output	Sub-clock 32 kHz
30,31	XIN,XOUT	XIN,XOUT	Inpu/Output	Main clock 6 MHz
32	VSS	VSS	—	GND
33	P_CNT	P27	Output	Power control port Power off: L ON: H
34,35	JOG1,JOG2	P26,25	Input	Jog dial data input Detection of phase difference between JOG1 and JOG2
36	VOL_DATA	P24	Output	VOL_IC M62419FP control port Serial data(Data of input selector, VOLUME, BASS/TRE)
37	VOL_CLK	P23	Output	VOL_IC M62419FP control port Sync clock signal
38	EX-LCK	P22	Output	Serial/parallel IC BU2092F control port Transmission latch clock
39	EX-SCK	P21	Output	Serial/parallel IC BU2092F control port Transmission sync clock signal
40	EX-DO	P20	Output	Serial/parallel IC BU2092F control port Transmission data (SRS surround mode control)
41~48	UDIG14~ UDIG07	P17/DIG15~ P10/DIG8	—	Digit for FL direct control
49~56 (56*)	UDIG06~ UDIG00	P07/SEG23/DIG07~ P00/SEG16/DIG00	—	Digit for FL direct control
57~64	USEG15~ USEG08	P37/SEG15~ P30/SEG08	—	Digit for FL direct control

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC901 RH-iX0141AWZZ(IX0141AW):System Microcomputer (2/2)

Pin No.	Terminal Name	Port Name	Input/ Output	Function
65~72	USEG07~ USEG00	P87/SEG07~ P80/SEG00	—	Digit for FL direct control
73	VCC	VCC	—	+5V
74	VEE	VEE	—	-30V
75	AVSS	AVSS	—	GND
76	VREF	VREF	—	+5V
77~80	SPE5~SPE2	P77/AN7~P74/AN4	—	Analog data input 5 to 2 for spectrum analyzer



IC1401 RH-iX2565AFZZ (iX2565AF):MD System Micon Control (1/2)

Pin No.	Port Name	Input/Output	Function
1*	P96/ANEX1	Output	NC
2*	P95/ANEX0	Output	NC
3	P94/DA1	Output	LDVAR(laser power adjustment output)
4*	P93/DA0	Output	ADJS(automatic adjustment step check)
5*	P92/TB2IN	Output	NC
6	P91/TB1IN	Input	LDSWCK input (interruption only in single state)
7	P90/TB0IN	Input	ERR input
8	BYTE	Input	BYTE
9	CNVSS	Input	CNVSS
10*	P87/XCIN	Output	NC
11*	P86/XCOUT	Output	NC
12	RESET	Input	RESET input
13*	XOUT	—	NC
14	VSS	—	GND
15	XIN	Input	XTAL(8.4672MHz input)
16	VCC	—	+3.15V
17	P85/NMI	Input	The external resistor is connected.
18	P84/INT2	Input	DINT(interruption input from MD record/playback LSI)
19	P83/INT1	Input	DSENSE(MD record/playback LSI servo sense input)
20	P82/INT0	Input	ST-ID/MD-ON
21	P81/TA4IN	Input	CD serch input(sync REC suspension input)
22	P80/TA4OUT	Output	MDRSW output
23	P77/TA3IN	Output	FSW1(SW power frequency selection)
24	P76/TA3OUT	Output	FSW2(SW power f H/L selection)
25	P75/TA2IN	Input	P-DOWN(power failure detection)
26	P74/TA2OUT	Output	HDON(magnetic head current on/off output)
27	P73/TAIN	Output	LD+(loading motor + control output)
28	P72/TA1OUT	Output	LD-(loading motor - control output)
29	P71/TA0IN	Input	CIN(track count signal input)
30	P70/TA0OUT	Input	INN SW(inner SW detection input)
31	P67/TXD1	Input	The external resistor is connected.
32	P66/RXD1	Input	The external resistor is connected.
33	P65/CLK1	Input	The external resistor is connected.
34	P64/CT1/RTS1/ CTS0/CLKS	Output	DSTB(system controller communication enabled or during communication)
35	P63/TXD0	Output	MD DATA(MD data output)
36	P62/RXD0	Input	K DATA(system controller data input)
37	P61/CLK0	Input	DSCK(system controller communication input)
38	4M/16M	Input	4M/16M Select 4M : L
39	P57	Output	R/P(REC/PLAY selection)
40	P56	Input	FOK(focus servo status monitor input)
41	P55	Output	HF ON(high frequency superposition on/off output)
42	P54	Input	SEL1 To be connected to GND
43	P53	Input	SEL0 To be connected to GND
44	P52	Output	SYRS(MD record/playback LSI register selection signal output)
45	P51	Output	SYRD(MD record/playback read signal output)
46	P50	Output	SYWB(MD record/playback write signal output)
47	P47	Input/Output	SYSD7(ENDEC/ATRTAC data bus 7)
48	P46	Input/Output	SYSD6(ENDEC/ATRTAC data bus 6)
49	P45	Input/Output	SYSD5(ENDEC/ATRTAC data bus 5)
50	P44	Input/Output	SYSD4(ENDEC/ATRTAC data bus 4)
51	P43	Input/Output	SYSD3(ENDEC/ATRTAC data bus 3)

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1401 RH-iX2565AWZZ (iX2565AW):MD System Micon Control (2/2)

Pin No.	Terminal Name	Input/Output	Function
52	P42	Input/Output	SYSD2(ENDEC/ATRTAC data bus 2)
53	P41	Input/Output	SYSD1(ENDEC/ATRTAC data bus 1)
54	P40	Input/Output	SYSD0(ENDEC/ATRTAC data bus 0)
55*	P37	Output	NC
56*	P36	Output	NC
57*	P35	Output	NC
58	P34	Output	EEPRO(EEPROM protect cancel)
59	P33	Output	EPCS(EEPROM chip selector output)
60	P32	Input/Output	EEPD(EEPROM serial data output)
61	P31	Output	EEPK(EEPROM serial clock output)
62	VCC	Input	+3.15V
63	P30	Output	NC
64	VSS	—	GND
65*	P27	Output	NC
66*	P26	Output	NC
67*	P25	Output	NC
68	P24	Output	HS/NS(High speed/Low speed)
69	P23	Output	DISC(H: Pit)
70	P22	Output	PCNT0
71	P21	Output	PCNT1
72	P20	Output	LD ON (H:ON)
73	P17	Output	ANLPTR output
74	P16	Output	ADPON output
75	P15	Output	DAPON output
76*	P14	Output	DFS0 output
77*	P13	Output	DFS1 output
78*	P12	Output	DIG EX output
79*	P11	Output	DIG CD output
80	P10	Output	XRST(system reset output)
81*	P07	Output	AD MUTE output
82	P06	Output	EMPHA output
83*	P05	Output	DA MUTE output(audio mute on/off output)
84*	P04	Output	MUTE
85	P03	Output	DOUTM
86	P02	Input	TEST2(special mode selection 2)
87	P01	Input	TEST1(special mode selection 1)
88	P00	Input	TEST0(special mode selection 0)
89	P107/AN7/KI3	Input	TCG(TOTAL signal detection input)
90	P106/AN6/KI2	Input	AVCK2(AD/DA section 3.1V monitor input)
91	P105/AN5/KI1	Input	AVCK1(AD/DA section 5V monitor input)
92	P104/AN4/KI0	Input	TEMP(temperature sensor detection input)
93	P103/AN3	Input	MINF(disc type/REC window)
94	P102/AN2	Input	TESTK1(TEST key input 1)
95	P101/AN1	Input	TESTK2(TEST key input 2)
96	AVSS	—	GND
97	P100/AN0	Input	HINF(mechanism position/head position)
98	VREF	—	VREF(+3.15V)
99	AVCC	—	+3.15V
100	P97/DTAG	Input	The external resistor is connected.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

SHARP PARTS GUIDE

MODEL MD-DX300H
MD-SA300H
CP-XV300H
CP-XV300H(BR)

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

MD-DX300H/MD-SA300H,CP-XV300H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS				
IC21	VHITA2057N/-1	J	AQ	FM IF/FM MPX./AM IF,TA2057N
IC41	VHITC9216P/-1	J	AL	PLL,TC9216P
IC101	VHINJM4558MF-	J	AE	Ope Amp.,NJM4558MF
IC161	VHIBU4052CF-1	J	AH	Input/Output Expander, BU4052CF
IC171	VHIBU4066BCF1	J	AD	Mic/AUX Input Selector, BU4066BCF
IC181	VHINJM4558MF-	J	AE	Ope Amp.,NJM4558MF
IC201~203	VHINJM4558MF-	J	AE	Ope Amp.,NJM4558MF
IC251	VHIM62419FP-1	J	AX	Audio Processor,M62419FP
IC252	VHINJM4558MF-	J	AE	Ope Amp.,NJM4558MF
IC301	VHISRS5250S-1	J	BL	SRS,SRS5250S
IC302	VHIBU4052CF-1	J	AH	Input/Output Expander, BU4052CF
IC303	VHIBU2092F/-1	J	AM	Input/Output Expander, BU2092F
IC304	VHIBU4066BCF1	J	AD	Mic/AUX Input Selector, BU4066BCF
IC351	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC371	VHINJM4560M-1	J	AE	Buffer Amp.,NJM4560M
IC401	VHINJM4558MF-	J	AE	Ope Amp.,NJM4558MF
IC451	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC481	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC501	VHISTK4182M-1	J	AZ	Power Amp.,STK4182
IC601	VHIM5278L56-1	J	AE	Voltage Regulator,M5278L56
IC700	VHIBA5920FP-1	J	AR	Focus/Tracking/Spin/ Slide Driver,BA5920FP
IC750	VHIM62472FP-1	J	AV	Servo Control,M62472FP
IC800	VHIM65821FP-1	J	BA	Servo/Signal Control,M65821FP
IC901	RH-IX0141AWZZ	J	AV	System Microcomputer, IX0141AW
IC902	VHIPST9127/-1	J	AG	Reset,PST9127
IC1101	VHIIR3R50//-1	J	AV	RF Signal Processor,IR3R50
IC1201	VHILR37646/-1	J	BF	ENDEC,LR37646
IC1202	RH-IX2474AFZZ	J	BF	4Mbit D-RAM,IX2474AF
IC1251	VHI74ACT02F-1	J	AF	Head Driver,74ACT02F
IC1401	RH-IX2565AFZZ	J	AX	MD System Micon Control, IX2565AF
IC1402	VHIS29194A/-1	J	AG	E²-PROM,S29194A
IC1601	VHIBA6996FP-1	J	AP	5-CH Motor Driver,BA6996FP
IC1602,1603	VHINJM2115M-1	J	AE	Ope Amp.,NJM2115M
IC1701	VHITDA1309H-3	J	AX	A/D,D/A Converter,TDA1309H
IC1703	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
IC1704,1705	VHITC4S66F/-1	J	AC	Analogue Switch,TC4S66F
IC1801	VHIHA16114F-1	J	AM	Switching Regulator,HA16114F
IC1802	VHINJM2403M-1	J	AE	Compareter,NJM2403M
IC1803	VHINJM2904M-1	J	AH	Ope Amp.,NJM2904M
IC1906	VHITC7ST08F-1	J	AE	And Gate,TC7ST08F
IC1907	VHITC9246F/-1	J	AM	Clock Generator,TC9246F
IC1913	VHI74VHC08F-1	J	AE	And Gate,74VHC08F
IC1914	VHITC7SH08F-1	J	AE	And Gate,TC7SH08F
IC1915	VHI74VHC08F-1	J	AE	And Gate,74VHC08F
ICA101	RH-IX0169AWZZ	J	BB	MD/CD Microcomputer, IX0169AW
ICA102	VHIPST9127/-1	J	AG	Reset,PST9127
ICA451	VHI74VHC00F-1	J	AE	Invertor,74VHC00F
ICA501	VHIBU2092F/-1	J	AM	Input/Output Expander, BU2092F
ICA551	VHIM5278L56-1	J	AE	Voltage Regulator,M5278L56
ICA552	VHIM5278L10-1	J	AF	Voltage Regulator,M5278L10
ICA553	VHINJM78M09F1	J	AE	Voltage Regulator,NJM78M09F
ICB101	RH-IX0177AWZZ	J	AR	Changer Microcomputer, IX0177AW
ICB102,103	VHITA7291S/-1	J	AH	Loading Motor Driver, TA7291S
ICB104	VHIPST9127/-1	J	AG	Reset,PST9127
TRANSISTORS				
Q11	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
Q12	VS2SC2412KLR1	J	AB	Silicon,NPN,2SC2412 KLR
Q21	VS2SC380-O/-1	J	AC	Silicon,NPN,2SC380 O
Q22,23	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q24	VSKRA101M//-1	J	AB	Silicon,PNP,KRA101 M
Q52	VSDTC114WS/-1	J	AB	Digital,NPN,DTC114 WS
Q71,72	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q91,92	VS2SC1740LSR1	J	AB	Silicon,NPN,2SC1740 LSR
Q141,142	VSDTC363TS/-1	J	AC	Digital,NPN,DTC363 TS
Q143	VSKRA104M//-1	J	AC	Silicon,PNP,KRA104 M
Q144	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q161~163	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
Q173	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q174	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q181,182	VSDTC363TS/-1	J	AC	Digital,NPN,DTC363 TS
Q183	VSKRA104M//-1	J	AC	Silicon,PNP,KRA104 M
Q184	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q301	VS2SC2001-L-1	J	AB	Silicon,NPN,2SC2001 L
Q401	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
Q451,452	VS2SD2144S/-1	J	AC	Silicon,NPN,2SD2144 S
Q453	VSKRA102S//-1	J	AB	Digital,PNP,KRA102 S
Q454	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q481,482	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
Q501,502	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q505	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q506,507	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q551	VS2SD2394F/-1	J	AE	Silicon,NPN,2SD2394 F
Q552	VS2SB1565F/-1	J	AG	Silicon,PNP,2SB1565 F
Q553	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q554	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q556	VS2SA933SR/-1	J	AB	Silicon,PNP,2SA933 SR
Q557	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q571	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q601	VS2SD2394F/-1	J	AE	Silicon,NPN,2SD2394 F
Q602	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q603	VSKRA102S//-1	J	AB	Digital,PNP,KRA102 S
Q604	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q605	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q631	VS2SB1116K/-1	J	AF	Silicon,PNP,2SB1116 K
Q701	VSKRA103S//-1	J	AB	Silicon,PNP,KRA103 S
Q751	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q871	VS2SC2714Y/1F	J	AC	Silicon,NPN,2SC2714 Y
Q872	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
Q873~875	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q876	VSKRA104S//-1	J	AC	Digital,NPN,KRA104 S
Q877	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q1101	VS2SB1424R/-1	J	AC	Silicon,PNP,2SB1424 R
Q1251,1252	VS2SK1847//-1	J	AD	FET,2SK1847
Q1253,1254	VS2SK1473//-1	J	AF	FET,2SK1473
Q1403	VSRN2404///-1	J	AC	Digital,NPN,RN2404
Q1404	VSRNC1404//-1	J	AB	Digital,NPN,RNC1404
Q1451	VS2SC2712GR-1	J	AB	Silicon,NPN,2SC2712 GR
Q1601	VS2SB1424R/-1	J	AC	Silicon,PNP,2SB1424 R
Q1701	VS2SC2712GR-1	J	AB	Silicon,NPN,2SC2712 GR
Q1703	VSRNC1404//-1	J	AB	Digital,NPN,RNC1404
Q1704	VSRN2404///-1	J	AC	Digital,NPN,RN2404
Q1801	VS2SB1424R/-1	J	AC	Silicon,PNP,2SB1424 R
Q1803	VSRN2407///-1	J	AB	Digital,NPN,RN2407
Q1804,1805	VSRNC1404//-1	J	AB	Digital,NPN,RNC1404
Q1807	VS2SB1424R/-1	J	AC	Silicon,PNP,2SB1424 R
Q1808~1810	VS2SC2712GR-1	J	AB	Silicon,NPN,2SC2712 GR
QA101,102	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
QA450	VS2SA1037KR-1	J	AB	Silicon,PNP,2SA1037 KR
QA451~454	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
QA551	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
QA553	VS2SD2394F/-1	J	AE	Silicon,NPN,2SD2394 F
QA555	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
QA557	VSKRA102S//-1	J	AB	Digital,PNP,KRA102 S
QA558	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
QA559	VS2SB1116K/-1	J	AF	Silicon,PNP,2SB1116 K
QA581	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
QB102	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
DIODES				
D1~4	VHD1SS133//-1	J	AA	Silicon,1SS133
D21	VHD1SS133//-1	J	AA	Silicon,1SS133
D131,132	VHD1SS133//-1	J	AA	Silicon,1SS133
D151,152	VHD1SS133//-1	J	AA	Silicon,1SS133
D161~165	VHD1SS133//-1	J	AA	Silicon,1SS133
D181,182	VHD1SS133//-1	J	AA	Silicon,1SS133
D201~206	VHD1SS133//-1	J	AA	Silicon,1SS133
D301,302	VHD1SS133//-1	J	AA	Silicon,1SS133
D451	VHD1SS133//-1	J	AA	Silicon,1SS133
D481,482	VHD1SS133//-1	J	AA	Silicon,1SS133
D484	VHD1SS133//-1	J	AA	Silicon,1SS133
D491,492	VHD1SS133//-1	J	AA	Silicon,1SS133
D501~503	VHD1SS133//-1	J	AA	Silicon,1SS133
D551,552	VHDKDS181S/-1	J	AB	Silicon,KDS181S
⚠D561	VHDS4VB20//-1	J	AG	Rectifier,S4VB20
D571	VHD1SS133//-1	J	AA	Silicon,1SS133
D572	VHDKDS181S/-1	J	AB	Silicon,KDS181S
D573	VHD1SS133//-1	J	AA	Silicon,1SS133
D601~603	VHD1SS133//-1	J	AA	Silicon,1SS133

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
D611,612	VHD1SS133//-1	J	AA	Silicon,1SS133
D631	VHDRL104///-1	J	AB	Silicon,RL104
⚠D651~654	VHDRL104///-1	J	AB	Silicon,RL104
D656	VHDRL104///-1	J	AB	Silicon,RL104
D803	VHDDA118///-1	J	AB	Silicon,DA118
D901	VHD1SS133//-1	J	AA	Silicon,1SS133
D1251,1252	VHDSB0209CP-1	J	AC	Silicon,SB0209CP
D1401	VHDDA204K//-1	J	AB	Silicon,DA204K
D1703	VHDKDS160//-1	J	AB	Silicon,KDS160
D1801,1802	VHDSB1005PC-1	J	AC	Silicon,SB1005PC
D1803	VHEHZU9R1B2-1	J	AC	Silicon,HZU9.1B2
DA101	VHDKDS181S/-1	J	AB	Silicon,KDS181S
DA551~553	VHD1SS133//-1	J	AA	Silicon,1SS133
DA556	VHDRL104///-1	J	AB	Silicon,RL104
⚠DA562~565	VHDRL204F//-1	J	AC	Silicon,RL204F
DA581	VHD1SS133//-1	J	AA	Silicon,1SS133
VD1,2	VHCKV1236Z23F	J	AS	Variable Capacitance, KV1236Z23F
ZD71	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD201	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
ZD241,242	VHEMTZJ7R5B-1	J	AA	Zener,7.5V,MTZJ7.5B
ZD251	VHEMTZJ8R2B-1	J	AC	Zener,8.2V,MTZJ8.2B
ZD551,552	VHEMTZJ160A-1	J	AA	Zener,16V,MTZJ16A
ZD601	VHEMTZJ130B-1	J	AC	Zener,13V,MTZJ13B
ZD602	VHEMTZJ100A-1	J	AC	Zener,10V,MTZJ10A
ZD631	VHEMTZJ330D-1	J	AB	Zener,33V,MTZJ33D
ZD632	VHEMTZJ6R8B-1	J	AC	Zener,6.8V,MTZJ6.8B
ZDA551	VHEMTZJ5R6C-1	J	AB	Zener,5.6V,MTZJ5.6C
ZDA552	VHEMTZJ9R1A-1	J	AA	Zener,9.1V,MTZ9.1A
ZDA554	VHEMTZJ6R8B-1	J	AC	Zener,6.8V,MTZJ6.8B
ZDA555	VHEMTZJ330D-1	J	AB	Zener,33V,MTZJ33D
ZDA591	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C

FILTERS

CF21,22	RFILF0072AFZZ	J	AG	FM IF
CF23	RFILA0178AFZZ	J	AF	AM IF
CF24	RCRM-0025AWZZ	J	AE	Ceramic

TRANSFORMER

⚠T651	RTRNP0137AWZZ	J	BF	Power
⚠TA551	RTRNP0111AWZZ	J	AP	Power

COILS

L1	RCILA1064AFZZ	J	AD	AM Antenna
L2	RCILB1074AFZZ	J	AC	AM Oscillation
L5	RBLN-0051AFZZ	J	AE	Balun
L21	VP-DH2R2M0000	J	AB	2.2 µH,Choke
L22	RCILI0312AFZZ	J	AC	FM Detector
L23	92LFILT-1432A	J		Low Pass Filter
L31	VP-DH470K0000	J	AB	47 µH,Choke
L71	VP-DH101K0000	J	AB	100 µH,Choke
L91,92	RCILZ0200AFZZ	J	AF	Multiplex Filter
L151	VP-DH2R2M0000	J	AB	2.2 µH,Choke
L381,382	VP-DH2R2K0000	J	AB	2.2 µH,Choke
L383	VP-XH2R2K0000	J	AB	2.2 µH,Choke
L501,502	VP-XHR22K0000	J	AC	0.22 µH,Choke
L503	VP-DHR22K0000	J	AB	0.22 µH
L571,572	RCILZ0137AFZZ	J	AA	0.29 µH
⚠L651	RCILZ0012AWZZ	J	AL	Line Filter
L901	VP-DH220K0000	J	AB	22 µH,Choke
L902,903	VP-DH4R7K0000	J	AB	4.7 µH,Antenna Choke
L1101,1102	VP-NM1R0M0000	J	AD	1.0 µH
L1201	VPANMR47K0000	J	AD	0.47 µH
L1203	VPANMR47K0000	J	AD	0.47 µH
L1251	VPANMR47K0000	J	AD	0.47 µH
L1302	VPANM1R0J0000	J	AC	1 µH
L1601	VP-NM1R0M0000	J	AD	1.0 µH
L1701,1702	VP-1M4R7J0000	J	AD	4.7 µH
L1801	RCILR0603AFZZ	J	AE	100 µH,Choke
L1802	RCILR0568AFZZ	J	AE	68 µH
L1950	RCILZ0279AFZZ	J	AE	1 µH
LA101	RCILC0282AFZZ	J	AC	27 µH,Choke
LA102,103	RCILC0288AFZZ	J	AD	4.7 µH,Choke
LA450,451	VP-DH100K0000	J	AB	10 µH,Choke
LA591	VP-DHR22K0000	J	AB	0.22 µH
LB101	VP-DH101K0000	J	AB	100 µH,Choke
LB102	VP-NM100K0000	J	AC	10 µH,Choke
LB103	VP-DH101K0000	J	AB	100 µH,Choke
LB105	VP-NM100K0000	J	AC	10 µH,Choke
LB107,108	VP-MK100K0000	J	AB	10 µH,Choke
LB109,110	VP-MK220K0000	J	AB	22 µH,Choke
LB151	VPADK470KR47K	J	AB	47 µH
LR190	VPANM1R0J0000	J	AC	1 µH

VARIABLE RESISTORS

VR161	RVR-B0009AWZZ	J	AM	20 kohm (B),Semi-VR [INPUT LEVEL]
VR751	RVR-M1003AFZZ	J	AB	22 kohms (B),Semi-VR [Tracking Error Balance]
VR752	RVR-M0999AFZZ	J	AB	10 kohm (B),Semi-VR [Tracking Gain]
VR753	RVR-M1003AFZZ	J	AB	47 kohms (B),Semi-VR [Focus Offset]
VR754	RVR-M1003AFZZ	J	AB	47 kohms (B),Semi-VR [Tracking Offset]
VR970	QSW-Z0003AWZZ	J	AH	Switch,Push Type [JOG VOLUME]
VR1110	RVR-M1105AFZZ	J	AB	68 kohms (B),Semi-VR [Focus Error Balance]
VRA200	QSW-Z0003AWZZ	J	AH	Switch,Push Type [JOG VOLUME]

VIBRATORS

X41	RCRSB0212AFZZ	J	AG	Crystal,4.5 MHz
X801	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
X901	RCRM-0119AFZZ	J	AD	Ceramic,6 MHz
X902	RCRSP0051AFZZ	J	AK	Crystal,32.768 kHz
XA101	RCRM-0012AWZZ	J	AF	Ceramic,8 MHz
XA102	RCRSP0051AFZZ	J	AK	Crystal,32.768 kHz
XB101	RCRM-0110AFZZ	J	AC	Ceramic,3 MHz
XL1201	RCRSB0309AFZZ	J	AK	Crystal,33.8688 MHz
XL1301	RCRSC0004AFZZ	J	AS	Crystal,45 MHz

CAPACITORS

C1	VCKYPA1HB221K	J	AA	220 pF,50V
C3,4	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C5	VCCUMN1HJ120J	J	AA	12 pF (UJ),50V
C6	VCCUMN1HJ180J	J	AA	18 pF (UJ),50V
C7	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C8	VCTYPA1EX473K	J	AA	0.047 µF,25V
C9	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C10	VCKYPA1HB471K	J	AA	470 pF,50V
C11	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C12	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C13	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C14	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C15	VCKYMN1HB102K	J	AA	0.001 µF,50V
C18	VCTYMN0JY223N	J	AA	0.022 µF,6.3V
C19	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C20,21	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C22	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C23	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C24	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C25	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C26	VCKYMN1HB101K	J	AA	100 pF,50V
C27	VCKYMN1HB331K	J	AA	330 pF,50V
C28	VCFYDA1HA823J	J	AB	0.082 µF,50V,Polyester
C29	VCFYDA1HA683J	J	AB	0.068 µF,50V,Polyester
C30	VCFYDA1HA823J	J	AB	0.082 µF,50V,Polyester
C31	VCTYMN1CY103M	J	AA	0.01 µF,16V
C32	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C33	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C34	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C35	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C36	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C38	VCKYMN1HB101K	J	AA	100 pF,50V
C39	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C40	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C41	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C42	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C43~45	VCKYMN1HB101K	J	AA	100 pF,50V
C46	VCKYMN1HB102K	J	AA	0.001 µF,50V
C47	VCKYMN1HB331K	J	AA	330 pF,50V
C52	VCCSMN1HL330J	J	AA	30 pF,50V
C71,72	VCTYPA1CX223K	J	AA	0.022 µF,16V
C73,74	RC-GZA224AF1H	J	AA	0.22 µF,50V,Electrolytic
C75	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C76	VCTYMN1EF223Z	J	AA	0.022 µF,25V

MD-DX300H/MD-SA300H,CP-XV300H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C79,80	VCKYTV1HB562K	J	AA	0.0056 µF,50V
C81,82	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C83,84	VCKYTV1HB222K	J	AA	0.0022 µF,50V
C85,86	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C87	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C88	RC-GZA107AF0J	J	AB	100 µF,6.3V,Electrolytic
C89,90	VCCSMN1HL560J	J	AA	56 pF,50V
C101,102	VCKYMN1HB221K	J	AA	220 pF,50V
C103,104	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C105,106	VCKYMN1HB221K	J	AA	220 pF,50V
C107,108	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C109,110	VCKYMN1HB221K	J	AA	220 pF,50V
C111,112	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C113,114	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C115	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C131	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C133,134	VCKYTV1HB101K	J	AA	100 pF,50V
C141	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C143,144	VCKYTV1HB101K	J	AA	100 pF,50V
C145,146	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C147	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C151	VCKYTV1EF473Z	J	AB	0.047 µF,25V
C153,154	VCKYTV1HB101K	J	AA	100 pF,50V
C155	VCKYTV1EF473Z	J	AB	0.047 µF,25V
C181,182	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C183,184	VCCSTV1HL560J	J	AA	56 pF,50V
C185,186	VCCSTV1HL330J	J	AA	33 pF,50V
C187,188	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C189	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C190	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C191	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C192	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C193	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C201	VCTYPA1CX223K	J	AA	0.022 µF,16V
C202,203	VCKYTV1HB682K	J	AA	0.0068 µF,50V
C204	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C205,206	VCKYTV1HB682K	J	AA	0.0068 µF,50V
C207	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C208,209	VCKYTV1HB272K	J	AA	0.0027 µF,50V
C210	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C211,212	VCKYTV1HB681K	J	AA	680 pF,50V
C213	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C214,215	VCKYTV1HB271K	J	AA	270 pF,50V
C216	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C217	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C218	RC-GZA476AF1V	J	AB	47 µF,35V,Electrolytic
C219	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C220	RC-GZA476AF1V	J	AB	47 µF,35V,Electrolytic
C241	RC-EZD107AF1A	J	AB	100 µF,10V,Electrolytic
C242	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C243	RC-EZD107AF1A	J	AB	100 µF,10V,Electrolytic
C244	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C251,252	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C253	RC-EZD475AF1E	J	AB	4.7 µF,25V,Electrolytic
C254	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C255,256	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C257,258	VCKYTV1EB104K	J	AA	0.1 µF,25V
C259~262	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C263~268	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C271~275	RC-EZD225AF1H	J	AB	2.2 µF,50V,Electrolytic
C276	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C277	RC-EZD225AF1H	J	AB	2.2 µF,50V,Electrolytic
C278	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C281	RC-EZD107AF1A	J	AB	100 µF,10V,Electrolytic
C282	VCKYTV1HB101K	J	AA	100 pF,50V
C283,284	RC-EZD106AF1C	J	AB	10 µF,16V,Electrolytic
C285	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C286	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C287	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C288	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C301,302	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C303	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C304	RC-GZA337AF1C	J	AC	330 µF,16V,Electrolytic
C305	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C306	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C307	VCTYPA1EX472K	J	AA	0.0047 µF,25V
C308	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C309	RC-QZA683AFYJ	J	AB	0.068 µF,50V,Mylar
C310	RC-QZA223AFYJ	J	AB	0.022 µF,50V,Mylar
C311	RC-QZA682AFYJ	J	AA	0.0068 µF,50V,Mylar
C312	RC-QZA182AFYJ	J	AB	0.0018 µF,50V,Mylar
C313	VCCSPA1HL331J	J	AA	330 pF,50V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C314	RC-GZA334AF1H	J	AA	0.33 µF,50V,Electrolytic
C315,316	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C317	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C320	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C321	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C322	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C323,324	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C330	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C331	VCKYTV1HB391K	J	AA	390 pF,50V
C332,333	VCKYPA1HB151K	J	AA	150 pF,50V
C341~344	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C345	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C353~356	VCCSTV1HL560J	J	AA	56 pF,50V
C359,360	RC-QZA823AFYJ	J	AC	0.082 µF,50V,Mylar
C361,362	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C365	RC-GZA476AF1V	J	AB	47 µF,35V,Electrolytic
C366	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C367	RC-GZA476AF1V	J	AB	47 µF,35V,Electrolytic
C368	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C371,372	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C373,374	VCKYMN1HB331K	J	AA	330 pF,50V
C375,376	VCKYMN1HB151K	J	AA	150 pF,50V
C379,380	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C381,382	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C383,384	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C385,386	RC-GZV477AF1C	J	AC	470 µF,16V,Electrolytic
C387	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C401,402	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C407,408	VCKYTV1HB151K	J	AC	150 pF,50V
C409,410	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C411	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C413,414	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C415	VCKYBT1HB102K	J	AA	0.001 µF,50V
C451,452	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C453,454	VCKYMN1HB101K	J	AA	100 pF,50V
C455,456	VCCSMN1HL470J	J	AA	47 pF,50V
C457,458	VCKYMN1HB331K	J	AA	330 pF,50V
C459,460	VCFYDA1HA334J	J	AC	0.33 µF,50V,Polyester
C461~465	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C471,472	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C481,482	VCFYDA1HA394J	J	AC	0.39 µF,50V,Thin Film
C483,484	RC-GZA226AF1E	J	AB	22 µF,25V,Electrolytic
C485	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C486,487	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C501	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C502	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C503,504	RC-GZA475AF1H	J	AB	4.7 µF,50V,Electrolytic
C505,506	VCKYMN1HB471K	J	AA	470 pF,50V
C507,508	VCCSMN1HL470J	J	AA	47 pF,50V
C509,510	VCFYDA1HA394J	J	AC	0.39 µF,50V,Thin Film
C511,512	VCCSMN1HL150J	J	AA	15 pF,50V
C513,514	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C515,516	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
C517	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C518	RC-GZA226AF1H	J	AB	22 µF,50V,Electrolytic
C519,520	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C521~524	RC-QZA104AFYJ	J	AC	0.1 µF,50V,Mylar
C525	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
C528,529	RC-EZ1621AFZZ	J	AN	3300 µF,50V,Electrolytic
C551,552	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C553,554	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C561~564	VCFYHA1HA104J	J	AB	0.1 µF,50V
C571~578	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C579,580	VCKYPA1HB102K	J	AA	0.001 µF,50V
C581,582	VCKYTV1HB102K	J	AA	0.001 µF,50V
C601	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C602	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C603	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C604	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C605,606	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C607	RC-GZA104AF1H	J	AB	0.1 µF,50V,Electrolytic
C608	RC-GZA106AF1E	J	AA	10 µF,25V,Electrolytic
C609	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C610,611	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C612	RC-EZ0001AWZZ	J	AK	0.22 µF,5.5V,Electrolytic
C613	RC-GZA107AF1E	J	AB	100 µF,25V,Electrolytic
C614	RC-GZA336AF1C	J	AB	33 µF,16V,Electrolytic
C615	RC-GZW478AF1E	J	AG	4700 µF,25V,Electrolytic
C631	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C632	RC-GZV227AF1H	J	AC	220 µF,50V,Electrolytic
C633	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
C635	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C651,652	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C701	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C702	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C703,704	VCKYTV1HB223K	J	AA	0.022 µF,50V
C750	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C751	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C752,753	VCCCTV1HH121J	J	AA	120 pF (CH),50V
C755	VCKYTV1HB332K	J	AA	0.0033 µF,50V
C756	VCKYTV1HB822K	J	AA	0.0082 µF,50V
C757	VCKYTV1CE154M	J	AA	0.15 µF,16V
C758	VCKYTV1CE334M	J	AA	0.33 µF,16V
C759	RC-EZY106AF1C	J	AB	10 µF,16V,Electrolytic
C760	VCKYTV1CB104K	J	AA	0.1 µF,16V
C761	VCKYTV1HB223K	J	AA	0.022 µF,50V
C762	VCKYTV1CB104K	J	AA	0.1 µF,16V
C763	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C764	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C765	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C766	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C767	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C768	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C769	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C770	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C771	VCKYTV1CB683K	J	AB	0.068 µF,16V
C772	VCKYTV1HB333K	J	AA	0.033 µF,50V
C773	VCKYTV1HB102K	J	AA	0.001 µF,50V
C780	VCKYTV1HB102K	J	AA	0.001 µF,50V
C801	VCKYTV1CF105Z	J	AB	1 µF,16V
C802	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C803	VCKYPA1HB271K	J	AA	270 pF,50V
C804	VCKYTV1HB471K	J	AA	470 pF,50V
C805	VCFYDA1HA564J	J	AE	0.56 µF,50V,Thin Film
C807	VCKYTV1HB223K	J	AA	0.022 µF,50V
C808	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C809	RC-EZY476AF1A	J	AB	47 µF,10V,Electrolytic
C810	VCKYTV1HB222K	J	AA	0.0022 µF,50V
C811	RC-GZA477AF1A	J	AC	470 µF,10V,Electrolytic
C819	VCTYPA1CX103K	J	AA	0.01 µF,16V
C822	VCCCTV1HH150J	J	AA	15 pF (CH),50V
C823	VCCCTV1HH180J	J	AA	18 pF (CH),50V
C831	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C832	VCCSPU1HL100J	J	AA	10 pF,50V
C871	VCKYTV1HB333K	J	AA	0.033 µF,50V
C872	VCKYTV1HB221K	J	AA	220 pF,50V
C873	VCCCTV1HH121J	J	AA	120 pF (CH),50V
C874	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C875	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C876	VCKYTV1CB474K	J	AC	0.47 µF,16V
C877	VCKYTV1HB471K	J	AA	470 pF,50V
C878	VCKYTV1HB102K	J	AA	0.001 µF,50V
C881,882	VCKYBT1HB221K	J	AA	220 pF,50V
C901	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C902,903	VCKYTQ1CF105Z	J	AC	1 µF,16V
C904	VCKYTV1HF104Z	J	AA	0.1 µF,50V
C905	VCCSTV1HL331J	J	AA	330 pF,50V
C906~908	VCCCTV1HH560J	J	AA	56 pF (CH),50V
C911,912	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C913	VCCCTV1HH120J	J	AA	12 pF (CH),50V
C914	VCCCTV1HH470J	J	AA	47 pF (CH),50V
C915	VCCSTV1HL101J	J	AA	100 pF,50V
C916	RC-EZD106AF1C	J	AB	10 µF,16V,Electrolytic
C920	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C922	VCKYMN1HB561K	J	AA	560 pF,50V
C923,924	RC-EZD106AF1H	J	AB	10 µF,50V,Electrolytic
C925	VCKYMN1HB271K	J	AA	270 pF,50V
C926~928	VCKYTV1HB271K	J	AA	270 pF,50V
C929	VCKYBT1HB102K	J	AA	0.001 µF,50V
C1100	VCKYTV1CF225Z	J	AC	2.2 µF,16V
C1101	VCKYTV1CF105Z	J	AB	1 µF,16V
C1104	VCCCCY1HH3R0C	J	AA	3 pF (CH),50V
C1105	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1108,1109	VCCCCY1HH8R0D	J	AA	8 pF (CH),50V
C1110	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1111	VCKYTQ1CB474K	J	AC	0.47 µF,16V
C1112	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1114,1115	VCCCCY1HH120J	J	AA	12 pF (CH),50V
C1120	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1122	VCKYTQ1CB105K	J	AD	1 µF,16V
C1124	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1125	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1126	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C1127	VCKYTV1CF105Z	J	AB	1 µF,16V

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C1128	VCKYCY1HB391K	J	AA	390 pF,50V
C1129	VCKYCY1HB331K	J	AA	330 pF,50V
C1130	VCKYCY1HB332K	J	AA	0.0033 µF,50V
C1131	VCKYCY1HB331K	J	AA	330 pF,50V
C1132,1133	VCKYTQ1CB105K	J	AD	1 µF,16V
C1134,1135	VCKYCY1CB223K	J	AA	0.022 µF,16V
C1136,1137	VCKYCY1HB682K	J	AA	0.0068 µF,50V
C1138	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C1139	VCKYTV1CB104K	J	AA	0.1 µF,16V
C1140	VCKYTQ1CB105K	J	AD	1 µF,16V
C1141	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1142,1143	VCKYTQ1CB105K	J	AD	1 µF,16V
C1144	VCCCCY1HH6R0C	J	AA	6 pF (CH),50V
C1145	VCKYCY1CB333K	J	AA	0.033 µF,16V
C1146	VCKYTQ1CB105K	J	AD	1 µF,16V
C1147	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1148	VCCCCY1HH2R0C	J	AA	2 pF (CH),50V
C1201	VCCCCY1HH330J	J	AA	33 pF (CH),50V
C1202	VCKYTV1CB474K	J	AC	0.47 µF,16V
C1203	VCKYTV1CF105Z	J	AB	1 µF,16V
C1204,1205	VCCCCY1HH120J	J	AA	12 pF (CH),50V
C1206	VCKYTV1CF105Z	J	AB	1 µF,16V
C1208	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1209,1210	VCKYTV1CB474K	J	AC	0.47 µF,16V
C1251	VCKYCY1CB273K	J	AA	0.027 µF,16V
C1252	VCCCTV1HH121J	J	AA	120 pF (CH),50V
C1253~1255	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1305	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C1401,1402	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1405	VCKYCY1EF104Z	J	AA	0.1 µF,25V
C1406	VCKYTV1CF105Z	J	AB	1 µF,16V
C1412	VCKYCY1HB681K	J	AA	680 pF,50V
C1421~1424	VCKYCY1CB223K	J	AA	0.022 µF,16V
C1460	VCKYTV1CF105Z	J	AB	1 µF,16V
C1601	VCKYTV1CF225Z	J	AC	2.2 µF,16V
C1602	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1604	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1605	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
C1612	RC-KZ1168AFZZ	J	AC	1 µF,10V,Electrolytic
C1631	VCKYTV1CF105Z	J	AB	1 µF,16V
C1650~1653	VCCSCY1HL821J	J	AA	820 pF,50V
C1654,1655	VCKYCY1HB472K	J	AA	0.0047 µF,50V
C1656,1657	VCKYCY1HB562K	J	AA	0.0056 µF,50V
C1658,1659	VCKYCY1EF104Z	J	AA	0.1 µF,25V
C1661	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C1700	VCKYTQ1CF225Z	J	AB	2.2 µF,16V
C1701	VCKYTV1CF105Z	J	AB	1 µF,16V
C1702	VCKYTV1CF224Z	J	AB	0.22 µF,16V
C1703	VCEAPS476AF0G	J	AC	47 µF,4V,Electrolytic
C1704,1705	VCCCCY1HH181J	J	AA	180 pF (CH),50V
C1706,1707	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1708	VCKYTV1CF224Z	J	AB	0.22 µF,16V
C1709	VCKYCY1CB223K	J	AA	0.022 µF,16V
C1710	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1711	VCKYTV1CF224Z	J	AB	0.22 µF,16V
C1712	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C1713	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1714	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C1715	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1716,1717	VCKYTV1CF224Z	J	AB	0.22 µF,16V
C1718	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1722	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1724	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1729	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C1730	VCKYTV1CF474Z	J	AB	0.47 µF,16V
C1731,1732	VCEAPS226AF1A	J	AD	22 µF,10V,Electrolytic
C1733	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C1735	VCCSCY1HL561J	J	AA	560 pF,50V
C1736,1737	VCCCCY1HH180J	J	AA	18 pF (CH),50V
C1738	VCCSCY1HL561J	J	AA	560 pF,50V
C1741	VCKYCY1EF104Z	J	AA	0.1 µF,25V
C1742,1743	VCEAPS476AF0G	J	AC	47 µF,4V,Electrolytic
C1750	VCEAPS107AF0J	J	AC	100 µF,6.3V,Electrolytic
C1804	VCKYCY1HB122K	J	AA	0.0012 µF,50V
C1805	RC-EZ1623AFZZ	J	AF	22 µF,10V,Electrolytic
C1808	RC-GZ1658AFZZ	J	AD	47 µF,25V,Electrolytic
C1809	VCKYTV1CF105Z	J	AB	1 µF,16V
C1810	VCKYCY1HB272K	J	AA	0.0027 µF,50V
C1811	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C1819	RC-EZ1653AFZZ	J	AF	33 µF,63V,Electrolytic
C1820	VCKYCY1HB152K	J	AA	0.0015 µF,50V
C1825	VCKYTV1EF104Z	J	AA	0.1 µF,25V

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C1826,1827	VCKYTV1CB474K	J	AC	0.47 µF,16V
C1828	VCKYCY1HB272K	J	AA	0.0027 µF,50V
C1829	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C1830	VCEAPS226AF0G	J	AC	22 µF,4V,Electrolytic
C1831	VCKYTV1CF105Z	J	AB	1 µF,16V
C1833	VCKYCY1HB272K	J	AA	0.0027 µF,50V
C1834	RC-EZ1657AFZZ	J	AD	33 µF,25V,Electrolytic
C1835	VCKYCY1EF104Z	J	AA	0.1 µF,25V
C1836	VCCCCY1HH5R0C	J	AA	5 pF (CH),50V
C1837	VCKYTV1CF105Z	J	AB	1 µF,16V
C1838,1839	VCKYTQ1EF225Z	J	AD	2.2 µF,25V
C1901	VCKYTV1CF105Z	J	AB	1 µF,16V
C1902	VCKYTV1CF474Z	J	AB	0.47 µF,16V
C1903	VCKYTV1CF105Z	J	AB	1 µF,16V
C1904	VCKYTQ1CB334K	J	AC	0.33 µF,16V
C1951	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1952	VCKYCY1CB103K	J	AA	0.01 µF,16V
C1953	VCKYTV1CB474K	J	AC	0.47 µF,16V
C1954	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C1955	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1956	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
C1957	VCEAPS107AF0J	J	AC	100 µF,6.3V,Electrolytic
C1958	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1962	VCKYCY1CB473K	J	AA	0.047 µF,16V
C1964	VCKYCY1HB102K	J	AA	1000 pF,50V
C1966	VCKYCY1HB391K	J	AA	390 pF,50V
CA101	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
CA102	VCKYTV1HF104Z	J	AA	0.1 µF,50V
CA103	VCKYTV1CF105Z	J	AB	1 µF,16V
CA104	VCCCTV1HH560J	J	AA	56 pF (CH),50V
CA105	VCCCTV1HH120J	J	AA	12 pF (CH),50V
CA106,107	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA110	VCKYTV1HB561K	J	AA	560 pF,50V
CA112	VCKYTV1HB561K	J	AA	560 pF,50V
CA115	VCKYTV1CF105Z	J	AB	1 µF,16V
CA121	VCKYTV1EB223K	J	AB	0.022 µF,25V
CA127,128	VCKYTV1HB271K	J	AA	270 pF,50V
CA129,130	VCKYBT1HB271K	J	AA	270 pF,50V
CA301,302	VCKYTV1HB271K	J	AA	270 pF,50V
CA355,356	VCKYTV1HB331K	J	AA	330 pF,50V
CA403	VCKYTV1HB471K	J	AA	470 pF,50V
CA450	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA451	VCKRTQ1CR224K	J	AB	0.22 µF,16V
CA452	VCKYTQ1EF105Z	J	AC	1 µF,25V
CA454	VCKRTQ1CR224K	J	AB	0.22 µF,16V
CA455	VCKYTQ1EF105Z	J	AC	1 µF,25V
CA456	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA457	VCKRTQ1CR224K	J	AB	0.22 µF,16V
CA458	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA461	VCCSTV1HL221J	J	AA	220 pF,50V
CA500	VCKYTV1HB391K	J	AA	390 pF,50V
CA501,502	VCKYTV1HB151K	J	AC	150 pF,50V
CA503	VCKYTQ1EF104Z	J	AA	0.1 µF,25V
CA551	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
CA552	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
CA553	RC-EZ0001AWZZ	J	AK	0.22 µF,5.5V,Electrolytic
CA554	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA556	VCKYTV1EF223Z	J	AA	0.022 µF,25V
CA557	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
CA559	RC-GZA337AF1A	J	AB	330 µF,10V,Electrolytic
CA560	RC-GZA106AF1E	J	AA	10 µF,25V,Electrolytic
CA561,562	VCKYTV1EF223Z	J	AA	0.022 µF,25V
CA564	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
CA566	VCKYTV1EF223Z	J	AA	0.022 µF,25V
CA567	RC-GZA106AF1E	J	AA	10 µF,25V,Electrolytic
CA568	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA569	RC-GZA106AF1E	J	AA	10 µF,25V,Electrolytic
CA570	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
CA571	92LCEU25W6800M	J	AP	6800 µF,25V,Electrolytic
CA572,573	VCKYPA1HF473Z	J	AB	0.047 µF,50V
CA574	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
CA575	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
CA577,578	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
CA579,580	VCFYHA1HA104J	J	AB	0.1 µF,50V
CA581	RC-GZV337AF1H	J	AD	330 µF,50V,Electrolytic
CA590	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
CA591	VCKYTV1EF223Z	J	AA	0.022 µF,25V
CA592	RC-GZA104AF1H	J	AB	0.1 µF,50V,Electrolytic
CA595	VCKYTV1HB151K	J	AC	150 pF,50V
CA597	VCCSPA1HL221J	J	AA	220 pF,50V
CA598,599	VCCSTV1HL221J	J	AA	220 pF,50V
CB102	VCCSPA1HL101J	J	AA	100 pF,50V

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CB103	VCKYPA1HB471K	J	AA	470 pF,50V
CB104	VCCSPA1HL101J	J	AA	100 pF,50V
CB105	VCKYPA1HB471K	J	AA	470 pF,50V
CB106	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
CB107~114	VCCSPA1HL101J	J	AA	100 pF,50V
CB120	VCCSPA1HL101J	J	AA	100 pF,50V
CB121	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
CB123	RC-QZA473AFYJ	J	AB	0.047 µF,50V,Mylar
CB125~127	VCCSPA1HL101J	J	AA	100 pF,50V
CB130	RC-QZA473AFYJ	J	AB	0.047 µF,50V,Mylar
CB132	VCCSPA1HL101J	J	AA	100 pF,50V
CB133,134	RC-QZA104AFYJ	J	AC	0.1 µF,50V,Mylar
CB140,141	RC-QZA104AFYJ	J	AC	0.1 µF,50V,Mylar
CB151	VCKYPU1HB271K	J	AA	270 pF,50V
CB152	VCKYPU1HB471K	J	AA	470 pF,50V
CB153	VCTYPA1CX104K	J	AB	0.1 µF,16V
CB154	RC-GZS227AF1A	J	AB	220 µF,10V,Electrolytic
CJ172	VCCCCY1HH221J	J	AA	220 pF (CH),50V
CJ180	VCCCCY1HH221J	J	AA	220 pF (CH),50V
JC121	VCCCCY1HH220J	J	AA	22 pF (CH),50V

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRD-SA2CD0R0J	J	AB	0 ohm,Jumper,ø1.9×3.4mm,Red
	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm, Green
	VRS-TQ2BB000J	J	AA	0 ohm,Jumper,1.55×3.1mm, Green
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
⚠FR501,502	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
⚠FR601	VRG-ST2EF560J	J	AB	56 ohms,1/4W,Fusible
R3,4	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R5	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R6	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R7	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R8	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R9	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R10	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R11	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R12	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R20	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R21	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R22	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R23	VRD-MN2BD560J	J	AA	56 ohms,1/8W
R24	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R25	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R26	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R27	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R29	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R30	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R31	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R33	VRD-MN2BD181J	J	AA	180 ohms,1/8W
R34	VRD-ST2CD184J	J	AA	180 kohms,1/6W
R35	VRD-ST2EE220J	J	AA	22 ohms,1/4W
R36	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R37	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R41	VRD-ST2EE222J	J	AA	2.2 kohms,1/4W
R42~45	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R46	VRD-ST2EE100J	J	AA	10 ohm,1/4W
R61,62	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R69,70	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R71,72	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R73,74	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R75,76	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R77	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R78	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R79	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R80	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R83,84	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R85,86	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R87,88	VRS-TV2AB474J	J	AA	470 kohms,1/10W
R89	VRD-ST2EE222J	J	AA	2.2 kohms,1/4W
R90	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R91	VRD-ST2EE222J	J	AA	2.2 kohms,1/4W
R92	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R93,94	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R95	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R96	VRD-ST2EE682J	J	AA	6.8 kohms,1/4W
R101,102	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R103,104	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R105,106	VRS-TV2AB104J	J	AA	100 kohm,1/10W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R107,108	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R109,110	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R111,112	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R113,114	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R115,116	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R131,132	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R133	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R134	VRD-ST2EE273J	J	AA	27 kohms,1/4W
R135	VRS-TV2AB822J	J	AA	8.2 kohms,1/10W
R136	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R141~144	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R145,146	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R147	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R151,152	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R153,154	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R155,156	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R161	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R162,163	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R164,165	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R166	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R167	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R168	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R171,172	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R173	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R174	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R175	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R176	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R181	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R182	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R183,184	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R185,186	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R187,188	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R189	VRD-ST2EE152J	J	AA	1.5 kohms,1/4W
R191,192	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R201	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R202	VRD-MN2BD274J	J	AA	270 kohms,1/8W
R203	VRD-MN2BD564J	J	AA	560 kohms,1/8W
R204	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R205	VRS-TV2AB474J	J	AA	470 kohms,1/10W
R206,207	VRS-TV2AB225J	J	AA	2.2 Mohms,1/10W
R208	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R209	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R210	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R211	VRS-TV2AB824J	J	AA	820 kohms,1/10W
R212	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R213	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R214	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R215	VRS-TV2AB394J	J	AA	390 kohms,1/10W
R216	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R217	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R218	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R219	VRS-TV2AB474J	J	AA	470 kohms,1/10W
R220	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R221	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R222	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R223	VRS-TV2AB394J	J	AA	390 kohms,1/10W
R224	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R225~229	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R230,231	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R241,242	VRD-ST2EE471J	J	AA	470 ohms,1/4W
R251,252	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R253	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R254	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R255~258	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R259	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R260	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R261	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R262	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R263	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R264	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R265~268	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R271,272	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R275,276	VRS-TV2AB684J	J	AA	680 kohms,1/10W
R277	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R278	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R280	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R281	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R282	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R301,302	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R303,304	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R305,306	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R307	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R308	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R310	VRD-ST2EE333J	J	AA	33 kohms,1/4W
R311	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R312	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R313	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R314	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R315	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R317	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R318	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R319,320	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R321	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R322~324	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R325	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R326	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R327,328	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R329	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R330	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R331	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R332	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R338	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R345,346	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R347	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R348	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R349,350	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R351,352	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R353,354	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R355,356	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R357,358	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R361,362	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R363,364	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R365	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R366	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R371,372	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R373,374	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R375	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377,378	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R379,380	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R381,382	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R383,384	VRD-RT2HD101J	J	AA	100 ohm,1/2W
R385,386	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R401	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R402	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R405,406	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R411	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R412	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R413	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R414	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R415	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R416	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R421~429	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R431	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R433	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R434	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R435	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R451	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W
R452	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R453,454	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R455,456	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R457,458	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R459,460	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R461,462	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R463,464	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R465,466	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R467	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R468	VRD-ST2EE152J	J	AA	1.5 kohms,1/4W
R475,476	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R481	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R482	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R483	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R484	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R485,486	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R487,488	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R489	VRD-ST2CD394J	J	AA	390 kohms,1/6W
R490	VRD-ST2EE394J	J	AA	390 kohms,1/4W
R493	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R494	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R495,496	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R498	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R501,502	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R503	VRD-MN2BD102J	J	AA	1 kohm,1/8W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R504	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R507,508	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R509,510	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R511	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R512	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R513~516	VRD-ST2EE332J	J	AA	3.3 kohms,1/4W
R517~520	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
R521,522	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R523,524	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R525	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R526	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R527	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R528	VRD-ST2CD393J	J	AA	39 kohms,1/6W
R529	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R530	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R531	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R532,533	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R535,536	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R537,538	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R551,552	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R553,554	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R556	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R557	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R558	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R559,560	VRS-VV3LA271J	J		270 ohms,3W
R571,572	RR-NZ1076AFZZ	J	AC	0.2 ohms,3W
R573	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R574	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R577,578	VRD-ST2EE3R9J	J	AA	3.9 ohms,1/4W
R579,580	VRD-ST2EE5R6J	J	AA	5.6 ohms,1/4W
R601	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R602	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R603,604	VRD-ST2EE332J	J	AA	3.3 kohms,1/4W
R605	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R606	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R607	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R608	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R609	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R610,611	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R612	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R631	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R632	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R633	VRD-ST2EE123J	J	AA	12 kohms,1/4W
R634,635	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R636,637	VRD-ST2EE2R2J	J	AA	2.2 ohms,1/4W
R651	VRD-ST2EE822J	J	AA	8.2 kohms,1/4W
R701	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R702,703	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R751	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R753	VRD-ST2EE180J	J	AA	18 ohms,1/4W
R754	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R755,756	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R757	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R758	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R759	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R761	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R762	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R763	VRS-TV2AB274J	J	AA	270 kohms,1/10W
R764	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R765	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R766	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R767	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R768	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R769~771	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R772	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R773	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R774	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R775	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R776	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R777	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R778	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R779	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R780	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R781	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R790~793	VRS-TV2AB124J	J	AA	120 kohms,1/10W
R794,795	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R801	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R802	VRS-TV2AB184J	J	AA	180 kohms,1/10W
R803	VRS-TV2AB335J	J	AA	3.3 Mohms,1/10W
R804	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R805	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R807	VRS-TV2AB101J	J	AA	100 ohm,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R808,809	VRD-ST2CD564J	J	AA	560 kohms,1/6W
R811	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R812	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R813	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R814~816	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R871	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R872	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R873	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R874	VRS-TV2AB272J	J	AA	2.7 kohms,1/10W
R875	VRS-TV2AB151J	J	AA	150 ohms,1/10W
R876	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R877	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R878,879	VRS-TV2AB105J	J	AA	1 Mohm,1/10W
R883	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R901	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R902~912	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R913	VRD-ST2EE821J	J	AA	820 ohms,1/4W
R914,915	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R916,917	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R918,919	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R920	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R921	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R922	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R923	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R925~928	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R929,930	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R931~935	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R936~940	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R941	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R942,943	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R944~947	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R950	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R951	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R952	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R953,954	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R955	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R956,957	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R958	VRD-ST2EE103J	J	AA	10 kohm,1/4W
R959	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R961	VRD-MN2BD334J	J	AA	330 kohms,1/8W
R962	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R963	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R964	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R965	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
R966	VRS-TV2AB475J	J	AA	4.7 Mohms,10W
R967,968	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R970	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R971	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R972	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R973	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R974	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R976	VRD-ST2EE122J	J	AA	1.2 kohms,1/4W
R977	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R978	VRD-ST2EE182J	J	AA	1.8 kohms,1/4W
R979	VRD-ST2EE222J	J	AA	2.2 kohms,1/4W
R980	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R981	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R982~984	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R1000	VRS-TQ2BB120J	J	AA	12 ohms,1/8W
R1100	VRS-TQ2BB150J	J	AA	15 ohms,1/8W
R1110	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R1111	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1114	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1115	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1117	VRS-CY1JB124J	J	AA	120 kohms,1/16W
R1118	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1120	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1121	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1122	VRS-CY1JB124J	J	AA	120 kohms,1/16W
R1123	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1127	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R1128	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1129,1130	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1131	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R1133	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1134,1135	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1136	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R1140	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R1141	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1142	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R1143	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1144	VRS-CY1JB391J	J	AA	390 ohms,1/16W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R1146	VRS-CY1JB335J	J	AA	3.3 Mohms,1/16W
R1147,1148	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R1149	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R1153	VRS-CY1JB184J	J	AA	180 kohms,1/16W
R1154	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1155	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1156	VRS-CY1JB124J	J	AA	120 kohms,1/16W
R1157	VRS-CY1JB561J	J	AA	560 ohms,1/16W
R1158	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R1159,1160	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1161	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1162	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R1163	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R1164	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1166	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R1201	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R1202	VRS-CY1JB105J	J	AA	1 Mohm,1/16W
R1210	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R1211	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1221	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1223	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R1251	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R1252,1253	VRS-CY1JB4R7J	J	AA	4.7 ohms,1/16W
R1254	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R1401	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1404	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1406	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1409	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1412	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R1413	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1414	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1415	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1416	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1420	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1421	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1422~1424	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1425	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R1426	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1427	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R1428	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1429,1430	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1441	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1452	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1453	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R1454	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1456	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1458	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1459	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1460	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1461	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1462	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1463	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1464	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1466	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1467	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1468~1472	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1473	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R1474~1476	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1605	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R1607,1608	VRS-TQ2BB270J	J	AA	27 ohms,1/8W
R1609	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R1610,1611	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1613	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1614	VRS-CY1JB183J	J	AA	18 kohms,1/16W
R1615	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1617	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1620~1622	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R1650	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1651	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1652	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1653	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1654	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1655	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1656	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1657	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1658	VRS-CY1JB183J	J	AA	18 kohms,1/16W
R1659	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1660	VRS-CY1JB183J	J	AA	18 kohms,1/16W
R1661	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1662	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1663	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1664	VRS-CY1JB103J	J	AA	10 kohm,1/16W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R1665	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1701	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R1702	VRS-CY1JB220J	J	AA	22 ohms,1/16W
R1703,1704	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1705,1706	VRS-CY1JB303J	J	AA	30 kohms,1/16W
R1707~1709	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1710	VRS-CY1JB303J	J	AA	30 kohms,1/16W
R1711	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R1713	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R1715	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1716	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1717	VRS-CY1JB181J	J	AA	180 ohms,1/16W
R1718	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1719	VRS-CY1JB182J	J	AA	1.8 kohms,1/16W
R1720~1722	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R1723	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1731	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R1733	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R1734,1735	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R1737,1738	VRS-CY1JB623J	J	AA	62 kohms,1/16W
R1739	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1740	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1741	VRS-CY1JB475J	J	AA	0.4 Mohms,1/16W
R1742	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R1743	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1744	VRS-CY1JB475J	J	AA	0.4 Mohms,1/16W
R1745	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1746,1747	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R1748	VRS-TQ2BB221J	J	AA	220 ohms,1/8W
R1750,1751	VRS-TV2AB121J	J	AA	120 ohms,1/10W
R1752	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1755,1756	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1757	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R1804	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R1805	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R1806,1807	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R1811	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R1812	VRS-TV2AB820J	J	AA	82 ohms,1/10W
R1820	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R1821	VRS-CY1JB821J	J	AA	820 ohms,1/16W
R1822	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R1823	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R1825	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R1826	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1830~1835	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R1836	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R1837	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R1841	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1842	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R1843	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1845	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1846	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1847	VRS-CY1JB243J	J	AA	24 kohms,1/16W
R1855	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R1856	VRS-CY1JB154J	J	AA	150 kohms,1/16W
R1857	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R1858	VRS-CY1JB225J	J	AA	0.2 Mohms,1/16W
R1859	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R1860	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R1861	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R1901	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R1902	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
R1903,1904	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R1928	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1935	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R1937	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1938	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1941	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1942	VRS-CY1JB560J	J	AA	56 ohms,1/16W
R1943	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1944	VRS-CY1JB560J	J	AA	56 ohms,1/16W
R1945	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1946	VRS-CY1JB560J	J	AA	56 ohms,1/16W
R1961	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R1962	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R1963	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R1964	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R1965	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R1967	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R1968	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R1969	VRS-TQ2BB100J	J	AA	10 ohm,1/8W
R1981,1982	VRS-CY1JB103J	J	AA	10 kohm,1/16W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R1994,1995	VRS-CY1JB101J	J	AA	100 ohm,1/16W
RA101~124	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA126~136	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA137	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
RA138	VRS-TV2AB475J	J	AA	4.7 Mohms,10W
RA139~142	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA143	VRS-TV2AB105J	J	AA	1 Mohm,1/10W
RA144,145	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA146	VRS-TQ2BB473J	J	AA	47 kohms,1/8W
RA147~155	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA156,157	VRS-TQ2BB473J	J	AA	47 kohms,1/8W
RA158,159	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA161~168	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA169,170	VRS-TV2AB474J	J	AA	470 kohms,1/10W
RA171	VRS-TV2AB224J	J	AA	220 kohms,1/10W
RA172	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA177,178	VRS-TV2AB334J	J	AA	330 kohms,1/10W
RA200	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
RA201	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
RA202	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
RA203	VRS-TV2AB272J	J	AA	2.7 kohms,1/10W
RA204	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
RA205	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
RA206	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA207	VRS-TV2AB183J	J	AA	18 kohms,1/10W
RA208	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA209	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
RA210	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
RA211	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
RA212	VRS-TV2AB272J	J	AA	2.7 kohms,1/10W
RA213	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
RA214	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
RA215	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA216	VRS-TV2AB183J	J	AA	18 kohms,1/10W
RA303,304	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA353,354	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RA452	VRS-TV2AB821J	J	AA	820 ohms,1/10W
RA453	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
RA454	VRD-ST2EE390J	J	AA	39 ohms,1/4W
RA455	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA456	VRD-ST2CD820J	J	AA	82 ohms,1/6W
RA458	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
RA459	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
RA460	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA462	VRS-TQ2BB472J	J	AA	4.7 kohms,1/8W
RA463	VRS-TV2AB221J	J	AA	220 ohms,1/10W
RA464	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RA500	VRS-TV2AB222F	J	AA	2.2 kohms,1/10W
RA501	VRS-TV2AB272F	J	AA	2.7 kohms,1/10W
RA502	VRS-TV2AB332F	J	AA	3.3 kohms,1/10W
RA503	VRS-TV2AB392F	J	AA	3.9 kohms,1/10W
RA504	VRS-TV2AB472F	J	AA	4.7 kohms,1/10W
RA505	VRS-TQ2BB682F	J	AA	6.8 kohms,1/8W
RA506	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA507	VRS-TV2AB182F	J	AA	1.8 kohms,1/10W
RA508,509	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA510	VRS-TV2AB103F	J	AB	10 kohms,1/10W
RA511	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
RA513	VRS-TV2AB393F	J	AA	39 kohms,1/10W
RA514	VRS-TV2AB223F	J	AA	22 kohms,1/10W
RA515	VRS-TV2AB153F	J	AA	15 kohms,1/10W
RA516	VRS-TV2AB104F	J	AA	100 kohm,1/10W
RA551	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RA553	VRD-ST2EE470J	J	AA	47 ohms,1/4W
⚠RA554	VRG-ST2EG3R3J	J	AB	3.3 ohms,1/4W,Fusible
RA555	VRS-TV2AB333J	J	AA	33 kohms,1/10W
RA556	VRD-ST2EE331J	J	AA	330 ohms,1/4W
RA560	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RA561	VRD-ST2EE560J	J	AA	56 ohms,1/4W
RA563	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RA565	VRS-TQ2BB102J	J	AA	1 kohm,1/8W
RA569	VRS-TQ2BB123J	J	AA	12 kohms,1/8W
RA570,571	VRD-ST2EE221J	J	AA	220 ohms,1/4W
RA572	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RA573	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
RA582~586	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA589	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA591	VRS-TV2AB393J	J	AA	39 kohms,1/10W
RA592	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W
RA593	VRS-TV2AB474J	J	AA	470 kohms,1/10W
RA594	VRS-TV2AB183J	J	AA	18 kohms,1/10W
RA595	VRS-TV2AB123J	J	AA	12 kohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RB103	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RB105	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RB106	VRD-ST2CD224J	J	AA	220 kohms,1/6W
RB107	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RB108	VRD-ST2CD224J	J	AA	220 kohms,1/6W
RB109~112	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RB113~120	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RB121~128	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RB133	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RB139,140	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RB141	VRD-RT2HD1R0J	J	AA	1 ohm,1/2W
RB142	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
RB143	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RB144	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RB145	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RB146~148	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RB149	VRD-RT2HD1R0J	J	AA	1 ohm,1/2W
RB150	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
RB151	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RB152	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RB153	VRD-ST2CD183J	J	AA	18 kohms,1/6W
RB161	VRD-ST2CD224J	J	AA	220 kohms,1/6W
RC120	VRS-CY1JB221J	J	AA	220 ohms,1/16W
⚠RP631	RH-QX1067AFZZ	J	AE	Posistor,8.2 ohms
⚠RPA552	RH-QX0002AWZZ	J	AK	Posistor,0.7 ohms
⚠RPA553	RH-QX0003AWZZ	J	AK	Posistor,2.2 ohms

OTHER CIRCUITRY PARTS

BI151/CNS151	QCNWN0912AWZZ	J	AH	Connector Ass'y,6-6Pin
BI241/CNS241	QCNWN0823AWZZ	J	AK	Connector Ass'y,10-10Pin
BI401/CNS401	QCNWN0820AWZZ	J	AH	Connector Ass'y,6-6Pin
BI561/CNS561	QCNWN0825AWZZ	J	AD	Connector Ass'y,3-3Pin
BI571/CNS571	QCNWN0822AWZZ	J	AE	Connector Ass'y,5-5Pin
BI651/CNS631/CN	QCNWN0824AWZZ	J	AF	Connector Ass'y,9-5-4Pin
BI652/CNS652	QCNWN0821AWZZ	J	AD	Connector Ass'y,2-2Pin
BI700/CNS700	QCNWN0860AWZZ	J	AE	Connector Ass'y,6-6Pin
BI751/CNS751	QCNWN0861AWZZ	J	AF	Connector Ass'y,8-8Pin
BI752/CNS752	QCNWN0862AWZZ	J	AF	Connector Ass'y,7-7Pin
BI851/CNS851	QCNWN0867AWZZ	J	AH	Connector Ass'y,6-6Pin
BI852/CNS852	QCNWN0868AWZZ	J	AD	Connector Ass'y,2-2Pin
BI1902/CNS1902	QCNWN6436AFZZ	J	AF	Connector Ass'y,5-5Pin
BIA200/CSA200	QCNWN0828AWZZ	J	AF	Connector Ass'y,6Pin
BIB04/CNSB04	QCNWN0853AWZZ	J	AF	Connector Ass'y,5-5Pin
BIB101/CNSB101	QCNWN0881AWZZ	J	AE	Connector Ass'y,6-5Pin
BIB102/CNSB102	QCNWN0882AWZZ	J	AE	Connector Ass'y,5-4Pin
CNP2	92LCONE-2P5268	J	AB	Plug,2Pin
CNP101	QCNCMZQ06AWZZ	J	AE	Plug,6Pin
CNP151	QCNCM786FAFZZ	J	AD	Plug,6Pin
CNP161	92LCONE6P53253	J	AC	Plug,6Pin
CNP181	92LCONEAP53253	J	AC	Plug,10Pin
CNP401	QCNCWZI14AWZZ	J	AF	Socket,14Pin
CNP402	QCNCMZP20AWZZ	J	AG	Plug,20Pin
CNP403	QCNCMZ015AWZZ	J	AG	Plug,15Pin
CNP501	QCNCMZQ10AWZZ	J	AE	Plug,10Pin
CNP571	92LCONE-5P5267	J	AB	Plug,5Pin
CNP601	92LCONE4P53253	J	AB	Plug,4Pin
CNP631	92LCONE5P53253	J	AB	Plug,5Pin
CNP651	92LCONE-3P5267	J	AB	Plug,3Pin
CNP652	92LCONE-2P5267	J	AB	Plug,2Pin
CNP700	92LCONE6P53253	J	AC	Plug,6Pin
CNP751	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP752	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP853	92LCONE4P53253	J	AB	Plug,4Pin
CNP901	QCNCMZR20AWZZ	J	AF	Plug,20Pin
CNP902	QCNCMZR14AWZZ	J	AF	Plug,14Pin
CNP1252	QCNCM891BAFZZ	J	AC	Plug,2Pin
CNP1601	QCNCM891EAFZZ	J	AD	Plug,5Pin
CNP1602	QCNCM890EAFZZ	J	AD	Plug,5Pin
CNP1901	QCNCM924EAFZZ	J	AD	Plug,5Pin
CNP1902	QCNCMZE24AFZZ	J	AG	Socket,24Pin
CNP1904	QCNCM891DAFZZ	J	AD	Plug,4Pin
CNPB01	92LCONE6P53253	J	AC	Plug,6Pin
CNPB02	92LCONE5P53253	J	AB	Plug,5Pin
CNS101	QCNCWZI06AWZZ	J	AE	Socket,6Pin
CNS171	QCNCWZI14AWZZ	J	AF	Socket,14Pin
CNS301	QCNCWZI20AWZZ	J	AG	Socket,20Pin
CNS401	QCNCMZQ14AWZZ	J	AE	Plug,14Pin
CNS402	QCNCWZM10AWZZ	J	AC	Socket,10Pin
CNS501	QCNCWZI10AWZZ	J	AF	Socket,10Pin
CNS901	QCNCWZK10AWZZ	J	AC	Socket,10Pin
CNS1101	QCNCWY026AFZZ	J	AH	Socket,26Pin

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
CNS1602A/B	QCNWN6437AFZZ	J	AG	Connector Ass'y,5-5Pin
CNS1603	QCNWN6504AFZZ	J	AD	Connector Ass'y,2Pin
CNSB03	QCNWN0852AWZZ	J	AE	Connector Ass'y,6Pin
CNW251	QCNWN0826AWZZ	J	AF	Connector Ass'y,3-2Pin
CNW371	QCNWN0526AWZZ	J	AD	Pin Header
CNW403	QCNWG0021AWZZ	J	AY	Flat Cable,20Pin
CNW800	QCNWN0866AWZZ	J	AG	Flat Cable,12Pin
CNW856	QCNWN1007AWZZ	J	AB	Pin Header
CNW857	QCNWN1008AWZZ	J	AB	Pin Header
CNW901	QCNWN0818AWZZ	J	AD	Flat Cable,10Pin
CPA101	92LCONE6P53253	J	AC	Plug,6Pin
CPA102	QCNCWZL25AWZZ	J	AD	Socket,25Pin
CPA103	QCNCWZL17AWZZ	J	AC	Socket,17Pin
CPA401	92LCONE5P53253	J	AB	Plug,5Pin
CPA456	92LCONE4P53253	J	AB	Plug,4Pin
CSA251	QCNCWZJ24AWZZ	J	AK	Socket,24Pin
CSA301	QCNCWZM25AWZZ	J	AD	Socket,25Pin
CSA451	92LCONE6P53253	J	AC	Plug,6Pin
CSA452	QCNCM705MAFZZ	J	AC	Plug,12Pin
CSA453	QCNCWZM17AWZZ	J	AC	Socket,17Pin
CSA454	92LCONE2P53253	J	AB	Plug,2Pin
CSA551	QCNCMZP20AWZZ	J	AG	Plug,20Pin
CWA301	QCNWN0830AWZZ	J	AF	Flat Cable,25Pin
CWA453	QCNWN0829AWZZ	J	AE	Flat Cable,17Pin
CWA552	QCNWN0831AWZZ	J	AC	Connector Ass'y,1Pin
⚠F651	92LFUSE-T202-E	J	AD	Fuse,T2A L 250V
⚠F652	92LFUSE-T162-E	J	AD	Fuse,T1.6A L 250V
⚠F653,654	92LFUSE-T502-E	J	AD	Fuse,T5A L 250V
FL901	VVKBJ480G//-1	J	AZ	FL Display,Amp.
FLA101	VVK16BT44G/-1	J	AZ	FL Display,MD/CD
J101	QJAKH0001AWZZ	J	AH	Jack,Mic
J130	92LJACKL1779A	J	AG	Jack,AUX/LINE OUT
J151	QJAKM0190AFZZ	J	AG	Jack,AUX 1
J371	QJAKH0001AWZZ	J	AH	Jack,Headphones
M3	92LMTR1746A	J	AN	Motor with Pulley [Loading]
M701	92LMTR1854CASY	J	AS	Spin Motor Ass'y with Chassis [CD Disc]
M702	92LMTR1854BASY	J	AP	Motor with Gear [Slide]
M1951	RMOTV0464AFZZ	J	AP	MD Slide Motor Ass'y
M1952	RMOTV0472AFZZ	J	AU	MD Disc Motor Ass'y
M1953	RMOTV0465AFZZ	J	AP	MD Loading/Head Motor Ass'y
MB1	RMOTV0373AFM1	J	AQ	Main Cam Motor Ass'y
MB2	RMOTV0373AFM1	J	AQ	Tray Motor Ass'y
RL571	RRLYD0004AWZZ	J	AP	Relay
SO1	QTANC0403AWZZ	J	AG	Treminal,Antenna
SO571	QTANA0401AWZZ	J	AG	Terminal,Speaker
SW401	QSW-K0064AWZZ	J	ADC	Switch,Key Type [Reset]
SW702	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]
SW951	QSW-K0181AFZZ	J	AB	Switch,Key Type [CD Open/Close]
SW970	QSW-K0003AWZZ	J	AD	Switch,Key Type [Power]
SW971	QSW-K0003AWZZ	J	AD	Switch,Key Type [MD EDIT]
SW972	QSW-K0003AWZZ	J	AD	Switch,Key Type [TUNER]
SW973	QSW-K0003AWZZ	J	AD	Switch,Key Type [AUX]
SW974	QSW-K0003AWZZ	J	AD	Switch,Key Type [3D SURROUND]
SW975	QSW-K0003AWZZ	J	AD	Switch,Key Type [3D SURROUND ON/OFF]
SW976	QSW-K0003AWZZ	J	AD	Switch,Key Type [BASS/TREBLE]
SW977	QSW-K0003AWZZ	J	AD	Switch,Key Type [TUNER MEMORY]
SW978	QSW-K0003AWZZ	J	AD	Switch,Key Type [TUNING UP]
SW979	QSW-K0003AWZZ	J	AD	Switch,Key Type [TUNING DOWN]
SW980	QSW-K0003AWZZ	J	AD	Switch,Key Type [PRESET +]
SW981	QSW-K0003AWZZ	J	AD	Switch,Key Type [PRESET -]
SW1951A/B	QSW-P1005AFZZ	J	AF	Switch,Push Type [Disc Protect]
SW1953	QSW-M0157AFZZ	J	AD	Switch,Slide Type [Lead In]
SW1954	QSW-M0166AFZZ	J	AD	Switch,Push Type [MD Play]
SW1955	QSW-M0166AFZZ	J	AD	Switch,Push Type [MD Record]
SW1956	QSW-M0165AFZZ	J	AD	Switch,Leaf Type [Loading]
SWA101	QSW-K0003AWZZ	J	AD	Switch,Key Type [MD PLAY]
SWA102	QSW-K0003AWZZ	J	AD	Switch,Key Type [MD STOP]
SWA200	QSW-K0003AWZZ	J	AD	Switch,Key Type [MD Eject]
SWA201	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISPLAY]
SWA202	QSW-K0003AWZZ	J	AD	Switch,Key Type [TIMER/DELETE]
SWA203	QSW-K0003AWZZ	J	AD	Switch,Key Type [NAME/TOC EDIT]
SWA204	QSW-K0003AWZZ	J	AD	Switch,Key Type [REC]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SWA205	QSW-K0003AWZZ	J	AD	Switch,Key Type [START]
SWA206	QSW-K0003AWZZ	J	AD	Switch,Key Type [TRACK]
SWA207	QSW-K0003AWZZ	J	AD	Switch,Key Type [REVIEW]
SWA208	QSW-K0003AWZZ	J	AD	Switch,Key Type [CD PLAY/PAUSE]
SWA209	QSW-K0003AWZZ	J	AD	Switch,Key Type [CD-STOP]
SWA210	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 1]
SWA211	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 2]
SWA212	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 3]
SWA213	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 1 Eject]
SWA214	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 2 Eject]
SWA215	QSW-K0003AWZZ	J	AD	Switch,Key Type [DISC 3 Eject]
SWA216	QSW-K0003AWZZ	J	AD	Switch,Key Type [ENTER]
SWA217	QSW-K0003AWZZ	J	AD	Switch,Key Type [CUE]
SWB101~104	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam]
SWB105~108	QSW-P0920AFZZ	J	AC	Switch,Push Type [Tray]
TP751	QCNCM742FAFZZ	J	AB	Plug,6Pin [Test Point]
TUN1	92LTUNER1775A	J	AY	FM Front End
UNA451	VHPGP1F32R/-1	J	AP	Optical Fiber Data Link, GP1F32R
UNA452	VHPGP1F32T/-1	J	AP	Optical Fiber Data Link, GP1F32T
UNI901	VHLSPS4201C-1	J	AN	Receiver,Remote Control, LSPS4201C

MD MECHANISM PARTS

1	NGERH0541AFZZ	J	AC	Gear,Drive
2	NSFTM0279AFFW	J	AE	Shaft,Drive
3	RCTRH8153AF10	J	BU	Optical Pickup Unit
4	MSPRP0726AFFJ	J	AA	Spring,Shaft
5	MSPRP0772AFFJ	J	AA	Spring,Drive Grip
6	LANGF1528AFZZ	J	AK	Head Bracket Ass'y
7	XWSSD14-05000	J	AA	Washer,ø1.4x0.5mm
8	LX-BZ0804AFFF	J	AA	Screw,ø1.4x2.2mm
9	LX-BZ0824AFZZ	J	AA	Screw,ø1.4x3mm
10	LANGF1526AFZZ	J	AD	Guide MD Pickup (A)
11	NSFTM0277AFFW	J	AC	Shaft,Pickup Slide
12	MLEVF2515AFZZ	J	AG	Cam Plate Ass'y
13	MSPRD1321AFFJ	J	AB	Spring,Ruck
14	NGERH0558AFZZ	J	AC	Gear,Ruck
15	LX-WZ9269AFZZ	J	AA	Washer,ø1.2xø3x0.25mm
16	LCHSM0902AFZZ	J	AL	Drive Plate Ass'y
17	MLEVF2518AFZZ	J	AC	Arm,Head Up Shift
18	MSPRD1318AFFJ	J	AB	Spring,Shift Arm
19	LANGF1527AFZZ	J	AD	MD Guide (B)
20	NSFTM0278AFFW	J	AC	Shaft,Pickup Guide
21	LX-BZ0850AFZZ	J	AB	Screw,ø1.7x7mm
22	NGERH0542AFZZ	J	AD	Gear,Loading
23	NSFTM0280AFFW	J	AC	Shaft,Loading Gear
24	MSPRP0795AFFJ	J	AC	Spring,Drive Shaft
25	LX-BZ0848AFZZ	J	AB	Screw,ø1.7x9mm
26	LX-BZ0851AFZZ	J	AB	Screw,ø1.7x2.5mm
27	LX-BZ0849AFZZ	J	AB	Screw,ø2x2mm
28	NGERH0540AFZZ	J	AC	Gear,Loading (B)
29	MLEVF2559AFZZ	J	AL	Rollar Arm Ass'y
30	LX-WZ9268AFZZ	J	AA	Washer,ø1.5xø3.2x0.5mm
31	MSPRT1566AFFJ	J	AB	Spring,Rollar
32	LX-BZ0846AFZZ	J	AB	Screw,ø1.7x3mm
33	LHLDX3128AFZZ	J	AK	Holder,Cartridge Ass'y
34	MLEVF2536AFZZ	J	AF	Arm,Holder
36	MSPRD1319AFFJ	J	AB	Spring,Holder Arm
37	RCILH0105AFZZ	J	AX	Magnetic Head
39	LX-BZ0880AFZZ	J	AC	Screw,ø2x2.2mm
40	MSPRT1565AFFJ	J	AC	Spring,Disc Motor
41	MLEVP1036AFZZ	J	AC	Clampa
42	MLEVP1034AFZZ	J	AC	Lever,Catch
43	MSPRD1334AFFJ	J	AC	Spring,Catch
44	PCOVW8151AFZZ	J	AB	Cover,Head Guide
45	PCUSS0681AF00	J	AC	Cushion
46	92LLUG1746A	J	AA	Lug,Terminal
47	XBPSD20P04K00	J	AA	Screw,ø2x4mm with Washer
49	XSPSN17P06K00	J	AB	Screw,ø1.7x6mm
100	KRPLF0011AF01	J	BT	MD Mechanism Ass'y
401	PCOVS3156AFFW	J	AH	Cover,Shield Top
402	PCUSS0654AFZZ	J	AB	Cushion,Head
404	QCNWN6440AFZZ	J	AN	Flexible Cable,24Pin
405	PCOVS3158AFFW	J	AH	Cover,Shield Bottom
406	LANGK0880AFFW	J	AL	Frame
407	PCUSG0531AFSA	J	AD	Cushion (A)
408	PCUSG0531AFSB	J	AD	Cushion (B)
409	LANGK0053AWFW	J	AD	Holder,MD Mechanism

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
501	XBPSD20P04K00	J	AA	Screw,ø2x4mm with Washer
502	XSPSN17P03K00	J	AB	Screw,ø1.7x3mm
503	LX-BZ0852AFFD	J	AC	Screw,ø1.7x8.9mm
504	XBPSD20P08KS0	J	AA	Screw,ø2x8mm
M1951	RMOTV0464AFZZ	J	AP	MD Slide Motor Ass'y
M1952	RMOTV0472AFZZ	J	AU	MD Disc Motor Ass'y
M1953	RMOTV0465AFZZ	J	AP	MD Loading/Head Motor Ass'y
SW1951A/B	QSW-P1005AFZZ	J	AF	Switch,Push Type [Disc Protect/Disc Media]
SW1953	QSW-M0157AFZZ	J	AD	Switch,Slide Type [Lead In]
SW1954	QSW-M0159AFZZ	J	AC	Switch,Push Type [MD Play]
SW1955	QSW-M0159AFZZ	J	AC	Switch,Push Type [MD Record]
SW1956	QSW-M0156AFZZ	J	AC	Switch,Leaf Type [Loading]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	PCUSG0427AFSC	J	AC	Cushion
⚠306	RCTRH8164AFZZ	J	BF	Pickup Unit Ass'y
306-1	———		—	Pickup Unit (Not Replacement Item)
306-2	NGERR0043AFZZ	J	AC	Gear,Rack
306-3	MSPRC0961AFZZ	J	AA	Spring,Rack
307	PCUSG0004AWSA	J	AD	Cushion
308	PCUSG0001AWSA	J	AD	Cushion
701	92L2R6S+6CZ	J	AB	Screw,ø2.6x6mm
702	92L2TTS+5BB	J	AB	Screw,ø2x5mm
703	92L2S+3PZ	J	AA	Screw,ø2x3mm
704	92L1R5WC3R8R25	J	AA	Washer,ø1.5xø3.8x0.25mm
M701	92LMTR1854CASY	J	AS	Motor with Chassis [Spin]
M702	92LMTR1854BASY	J	AP	Motor with Gear [Slide]
SW702	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]

CHANGER MECHANISM

101	LCHSM0037AWZZ	J	AP	Main Base
102	LANGF0024AWZZ	J	AE	Top Board
103	NROLP0007AWZZ	J	AB	Roller,Cam Guide
104	NPLYR0004AWZZ	J	AC	Pulley,Drive
105	NGERH0052AWZZ	J	AC	Gear,Idler
106	NGERH0053AWZZ	J	AB	Gear,Cam
107	NGERH0054AWZZ	J	AB	Gear,Midle
108	NGERH0057AWZZ	J	AB	Gear,Tray Idler
109	MCAMP0127AFZZ	J	AR	Main Cam
110	MLEVP0056AWZZ	J	AC	Lever,Front Switch
111	MLEVP0057AWM1	J	AC	Lever,Rear Switch Ass'y
112	MLEVP0058AWZZ	J	AB	Lever,Tray Lock
113	PGIDM0018AWZZ	J	AF	Holder Mecha
114	PGIDM0019AWZZ	J	AE	Stabilizer Holder
115	LHLDM1008AWZZ	J	AD	Stabilizer
116	PGIDM0017AWZZ	J	AC	Guide,Mecha Holder
119	GCOVA1126AWZZ	J	AL	Tray,Guide
120	GCOVA1127AWZZ	J	AF	Tray,Disc
121	LANGF0025AWZZ	J	AB	Bracket,Switch
122	NSFTL0001AWZZ	J	AB	Shaft,Tray Change
123	MSPRD0078AWFJ	J	AB	Spring,Tray Switch
124	MSPRD0080AWFJ	J	AB	Spring,Tray Lock Lever
125	MSPRD0079AWFJ	J	AB	Spring,Disc Top
126	NBLTK0028AWZZ	J	AB	Belt,Tray Drive
127	NBLTK0027AWZZ	J	AB	Belt,Cam Drive
128	PMAGF0001AWZZ	J	AF	Magnet
129	92LN-BAND1318A	J	AA	Nylon Band,80mm
130	PGUMS0012AWZZ	J	AB	Tray Rover
131	LANGF0028AWZZ	J	AB	Bracket,Mecha Holder
132	LCHSM0038AWZZ	J	AK	Changer Box
133	NGERH0055AWZZ	J	AC	Gear,Center
134	NGERH0056AWZZ	J	AB	Gear,Center Tray
135	NGERH0058AWZZ	J	AB	Gear,Tray Drive
136	MLEVP0052AWZZ	J	AC	Lever,Tray Change
137	MLEVP0053AWZZ	J	AC	Lever,Top Joint
138	MLEVP0054AWZZ	J	AC	Lever,Midle Joint
139	MLEVP0055AWZZ	J	AC	Lever,Bottom Joint
801	XBPSD26P04000	J	AA	Screw,ø2.6x4mm
802	XEBSD20P07000	J	AB	Screw,ø2x7mm
803	XEBSD20P06000	J	AA	Screw,ø2x6mm
804	XEBSD26P12000	J	AA	Screw,ø2.6x12mm
805	LX-EZ0005AWFD	J	AA	Screw,Spechal
MB1	RMOTV0373AFM1	J	AQ	Main Cam Motor Ass'y
MB2	RMOTV0373AFM1	J	AQ	Tray Motor Ass'y

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SWB101~104	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam]
SWB105~108	QSW-P0920AFZZ	J	AC	Switch,Push Type [Tray]

CABINET PARTS

201	92LMCAB2391AS2	J	AZ	Front Panel,Front Side Ass'y [MD-DX300H]
201-1	———		—	Front Panel,Front Side [MD-DX300H] (Not Replacement Item)
201-2	HDECQ0170AWSA	J	AF	Panel,FL Display [MD-DX300H]
201-3	PSHEP0008AWSA	J	AE	Filter,FL Display
202	92LMCAB2391AS1	J	AM	Front Panel,Rear Side Ass'y [MD-DX300H]
202-1	———		—	Front Panel,Rear Side [MD-DX300H] (Not Replacement Item)
202-2	92LCUSN1585A	J	AA	Leg,Cushion
204	JKNBZ0298AWSA	J	AE	Knob,MD Operation
205	JKNBZ0297AWSA	J	AD	Knob,CD Operation/MD Eject
206	JKNBZ0299AWSA	J	AE	Knob,EDIT/REC
207	JKNBZ0300AWSA	J	AC	Knob,CHROME
208	GDORF0037AWSA	J	AF	MD Lid
209	LHLDZ1124AW00	J	AC	Holder,MD Lid
210	MSPRD0027AWZZ	J	AB	Spring,MD Lid
211	92LCUSN1585A	J	AA	Leg,Cushion
212	JKNBZ0330AWSA	J	AD	Knob,CD Eject
213	JKNBZ0302AWSA	J	AD	Knob,ENTER
215	LHLDZ1131AWSA	J	AD	Holder,FL Display
216	LCHSM0040AWFW	J	AN	Main Chassis [MD-DX300H]
217	LHLDZ1132AWSA	J	AG	Holder,MD
218	GITAR0176AWSA	J	AL	Rear Panel [MD-DX300H]
220	92LN-BAND1318A	J	AA	Nylon Band,80mm
221	PRDAR0041AWFW	J	AG	Heat Sink
224	92LCAB2390CS1	J	AT	Cabinet [MD-DX300H]
225	JKNBK0040AWSA	J	AC	Knob,JOG
226	92LACAB2457AS1	J	BS	Front Panel,Front Side Ass'y [MD-SA300H]
226-1	———		—	Front Panel,Front Side [MD-SA300H] (Not Replacement Item)
226-2	HDECQ0205AWSA	J	AG	Panel,FL Display [MD-SA300H]
226-3	PSHEP0008AWSA	J	AE	Filter,FL Display
227	92LACAB2390AS1	J	AS	Front Panel,Rear Side Ass'y [MD-SA300H]
227-1	———		—	Front Panel,Rear Side [MD-SA300H] (Not Replacement Item)
227-2	92LCUSN1585A	J	AA	Leg,Cushion
230	JKNBZ0303AWSA	J	AD	Knob,Mode Function
231	JKNBZ0304AWSA	J	AC	Knob,POWER
232	HDECQ0161AWSA	J	AD	Switch Decoration,Edit
233	HDECQ0162AWSA	J	AE	Switch Decoration,Volume
234	PSHEP0009AWSA	J	AC	Cover,Jack
235	LHLDZ1131AWSA	J	AD	Holder,FL Display
236	LANGK0056AWFW	J	AC	Bracket,Jack
237	LCHSM0036AWFW	J	AM	Main Chassis [MD-SA300H]
238	LANGK0054AWFW	J	AC	Bracket,PWB
239	PRDAR0059AWFW	J	AK	Heat Sink,Main
240	PRDAR0060AWFW	J	AL	Heat Sink,Sub
241	LANGK0055AWFW	J	AE	Bracket,PWB
242	92LRDAT1587A	J	AC	Heat Sink
⚠243	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
⚠244	QACCB0003AW00	J	BA	AC Power Supply Cord [For UK]
⚠244	QACCE0008AW00	J	AG	AC Power Supply Cord [For Europe]
245	PRDAR0041AWFW	J	AG	Heat Sink
246	GITAR0207AWSA	J	AL	Rear Panel [MD-SA300H]
247	92LCAB2390CS2	J	AT	Cabinet [MD-SA300H]
248	JKNBK0041AWSA	J	AD	Knob,Volume
249	JKNBK0042AWSA	J	AD	Knob,Analog
250	PCOVP1004AWSA	J	AG	Cover,Heat Sink
⚠260	92LFSHOLD1652T	J	AB	Holder,Fuse
⚠261	92LLUG1746A	J	AA	Lug,Terminal
262	PSLDM3024AWFW	J	AE	Plate,Shield
263	GLEGP0005AWSA	J	AC	Cushion,Leg
264	PSPAZ0018AWSA	J	AB	Spacer
265	PRDAR0061AWFW	J	AE	Heat Sink
266	PCOVW1004AW00	J	AG	Cover
267	PCUSG0024AW00	J	AB	Cushion
269	TSPC-0418AWZZ	J	AC	Label,Specifications
270	GCOVA1128AWSA	J	AE	CD Cover,Disc 1

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
271	GCOVA1129AWSA	J	AE	CD Cover,Disc 2
272	GCOVA1130AWSA	J	AE	CD Cover,Disc 3
273	PFLT-0034AW00	J	AB	Felt,CD Eject Knob
274	PCUSZ0007AWZZ	J	AB	Cushion,MD Mechanism Unit
275	PCUSZ0006AWZZ	J	AC	Cushion,MD Mechanism Unit
278	TCAUS0028AWZZ	J	AB	Label,Class 3B
279	92LCAUT1706A	J	AB	Label,Class 3A
280	92LCAUT1706B	J	AA	Label,Laser Caution
281	TLABS0119AWZZ	J	AC	Label,Caution [For UK]
281	TLABS0124AWZZ	J	AD	Label,Caution [For Europe]
282	92LCORE1777A	J	AE	Core
283	TCAUZ0020AWZZ	J	AB	Sheet,Caution
601	XEBSD26P10000	J	AA	Screw,ø2.6×10mm
604	XEBSF26P10000	J	AA	Screw,ø2.6×10mm
605	XJBSF30P08000	J	AA	Screw,ø3×8mm
606	XHBSD30P10000	J	AA	Screw,ø3×10mm
607	XHSSD30P08000	J	AA	Screw,ø3×8mm
608	XESSD30P10000	J	AA	Screw,ø3×10mm
609	LX-JZ0033AFFF	J	AA	Screw,ø3×8mm
611	XEBSD30P10000	J	AA	Screw,ø3×10mm
612	XJBSD30P08000	J	AA	Screw,ø3×8mm
613	XJBSN30P08000	J	AA	Screw,ø3×8mm
614	LX-EZ0005AWFD	J	AA	Screw,Spechal
615	XHBSD30P06000	J	AA	Screw,ø3×6mm
616	XJBSD30P16000	J	AA	Screw,ø3×16mm
617	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
618	XHBSD40P08000	J	AA	Screw,ø4×8mm
619	XJBSD30P14000	J	AA	Screw,ø3×14mm
624	LX-LZ0003AWZZ	J	AB	Push Ribet
625	XWSSN32-07000	J	AB	Washer,ø3.2mm
626	LX-WZ0014AGFK	J	AA	Washer,ø2.6mm
627	XHBSD30P08000	J	AA	Screw,ø3×8mm
628	LX-WZ7002AW00	J	AB	Fiber Washer

ACCESSORIES/PACKING PARTS

1	SPAKC0515AWZZ	J	AT	Packing Case [MD-XV300H(BR)]
1	SPAKC0475AWZZ	J	AT	Packing Case [For Europe]
1	SPAKC0476AWZZ	J	AT	Packing Case [For UK]
2	SPAKA0115AWZZ	J	AH	Packing Add.,L/R [MD-DX300H]
3	SPAKA0119AWZZ	J	AH	Packing Add.,L/R [MD-SA300H]
4	RRMCG0105AWSA	J	AW	Remote Control
4-1	GFTAB1013AWSA	J	AQ	Battery Lid,Remote Control
5	SSAKH0021AWZZ	J	AC	Polyethylene Bag,Unit [MD-DX300H]
6	SSAKH0019AWZZ	J	AD	Polyethylene Bag,Unit [MD-SA300H]
7	SPAKX0028AWZZ	J	AB	Pad,Top
8	SPAKX0027AWZZ	J	AE	Pad,Side
9	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
10	QANTL0001AWZZ	J	AL	AM Loop Antenna
11	QCNWG0018AWZZ	J	AQ	Connector
12	92LCARD1751A	J	AB	Registration Card
13	TINSE0153AWZZ	J	AR	Operation Manual [For UK]
13	TINSZ0194AWZZ	J	AV	Operation Manual [For Europe]
14	92LF-ANT1535A	J	AF	FM Antenna
15	UDSKM0001AFZZ	J	AZ	Recordable MD
16	TCAUH0034AWZZ	J	AB	Caution Bill

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	92LPWB2459AMPS	J	—	Tuner/Power/Power Trans (Combined Ass'y) [For UK Only]
PWB-B1~4	92LPWB2459MANS	J	—	Main/Connection/Display/Mic (Combined Ass'y) [For UK Only]
PWB-C	92LPWB2390JCKS	J	—	Jack [For UK Only]
PWB-D	92LPWB2459CDUS	J	—	CD Servo [For UK Only]
PWB-E1,2	92LPWB2459SWHS	J	—	MD-CD Power/MD-CD Switch (Combined Ass'y) [For UK Only]
PWB-G	92LPWB2459DPLS	J	—	MD-CD Display [For UK Only]
PWB-H	DCYO-2931AF01	J	—	MD Main [For UK Only]
PWB-J1,2	DUNTZ0761AF03	J	—	MD Mechanism Switch/Motor (Combined Ass'y) [For UK Only]
PWB-K	92LPWB2391CHGS	J	—	CD Changer [For UK Only]
PWB-L	QPWBF0322AWZZ	J	AC	Tray Switch (PWB Only) [For UK Only]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
OTHER SERVICE PARTS				
	QCNWK0048AFZZ	J	AL	Extension Cable, CNP7-CNS7 (3-3Pin)
	QCNWK0059AFZZ	J	AF	Extension Cable (2Pin)
	QCNWK0060AFZZ	J	AH	Extension Cable (5Pin)
	QCNWK0061AFZZ	J	AK	Extension Cable (5Pin)
	RRCDT0101AFZZ	J	CB	Test Disc,Low Reflection
	RRCDT0103AFZZ	J	BK	Head Adjusting Transparend Disc
	RUNTK0385AFZZ	J	BS	Extension PWB
	UDSKM0001AFZZ	J	AZ	Recording Mini Disc

CP-XV300H
CP-XV300H(BR)

SPEAKER BOX PARTS

701	HPNLS1004AWSA	J		Side Panel
702	92L20100V30010	J	AR	Net Ass'y [CP-XV300H]
702	92L201003HBR00	J	AR	Net Ass'y [CP-XV300H (BR)]
702-1	————		—	Net (Not Replacement Item)
702-2	HBDGB1002AWSA	J	AD	Badge,SHARP
703	HDECQ0163AWSA	J		Ring,Woofer
705	92L10002V30010	J	BH	Speaker Box
706	92LETER3S450	J	AH	Terminal,Speaker
707	TSPC-0426AWZZ	J		Label,Specifications [CP-XV300H for UK]
707	TSPC-0432AWZZ	J		Label,Specifications [CP-XV300H (BR)]
707	92L600XV300H00	J	AD	Label,Specifications [CP-XV300H for Europe]
708	92LPCATXL12	J	AC	Catch,Holder
710	PCUSZ0008AWZZ	J		Sound Absorber
902	92L411S84014AB	J	AD	Screw,ø4×14mm
903	92L411S83510AB	J	AD	Screw,ø4×15mm
904	92L411N74015AB	J	AC	Screw,ø4×15mm
C1,2	92L3582210L000	J	AM	Capacitor,2.2 µF,100V,NP
R1,2	92L37708270100	J	AH	8.2 ohms,7W
SP1,2	VSP0013WB148A	J	BD	Woofer
SP3,4	VSP0030TB408A	J	BB	Tweeter

ACCESSORIES/PACKING PARTS

21	92L720TXV30000	J	AK	Packing Add.,Speaker,Top
22	92L720BXV30000	J	AK	Packing Add.,Speaker,Bottom
23	92L71025000600	J	AF	Polyethylene Bag,Speaker
24	SPAKP0049AWZZ	J	AF	Sheet,Speaker
25	92LPPEB9S450	J	AB	Polyethylene Bag,Speaker Cord
26	92L3191PXL1010	J	AN	Speaker Cord
27,28	92L415CPXL1010	J	AH	Polyethylene Bag,Built inCushion
29	TLABM0034AWZZ	J		Label,Feature [For UK]
29	92L610XV300H00	J	AH	Label,Feature [For Europe]
30	92L70012002710	J		Polyethylene Bag,Accessories Net Ass'y
31	92L20100V30010	J	AR	Accessories Net Ass'y [CP-XV300H (BR)]
31	92L20100300H10	J	AR	Accessories Net Ass'y [CP-XV300H]

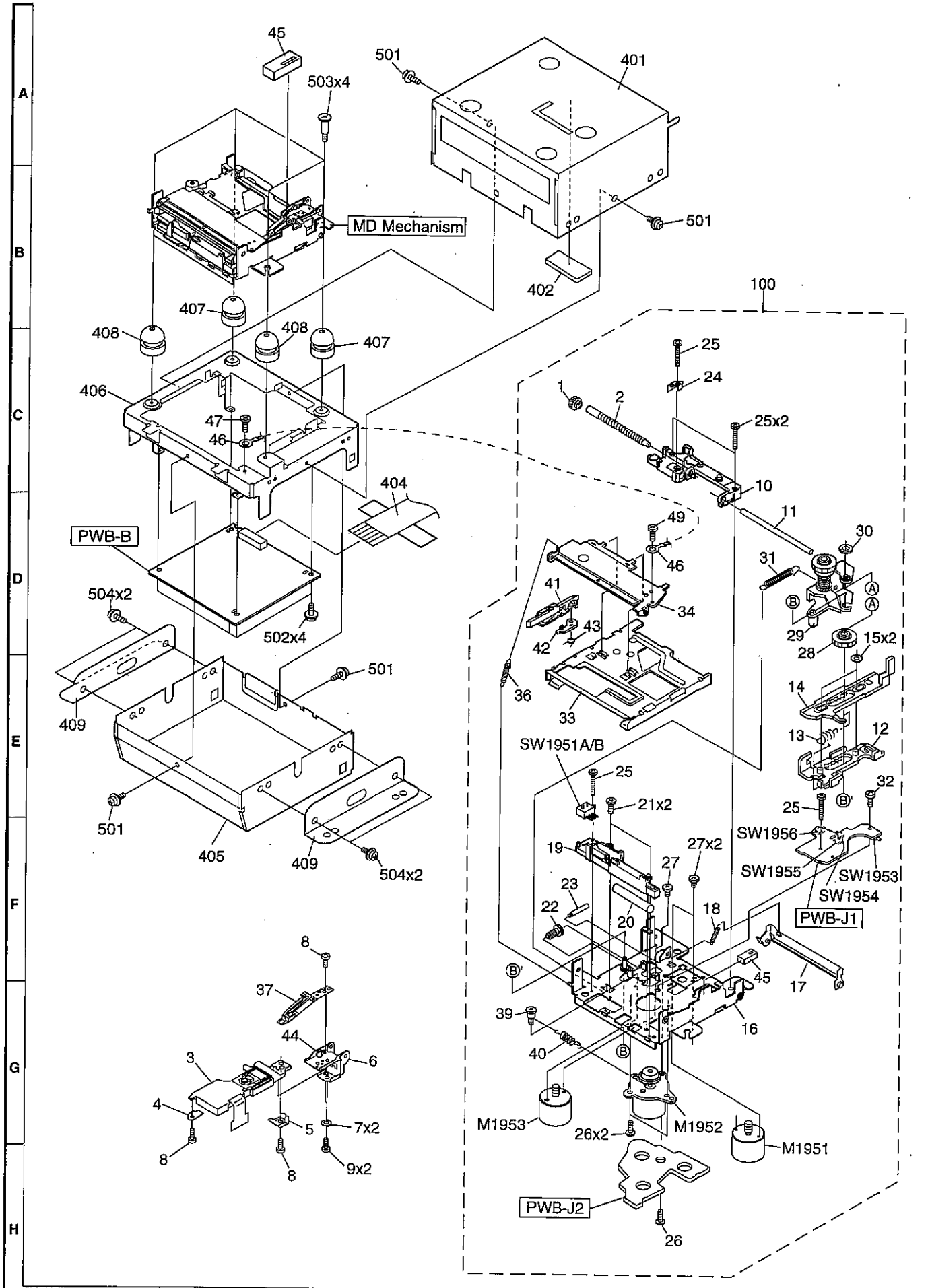


Figure 13 MD MECHANISM EXPLODED VIEW

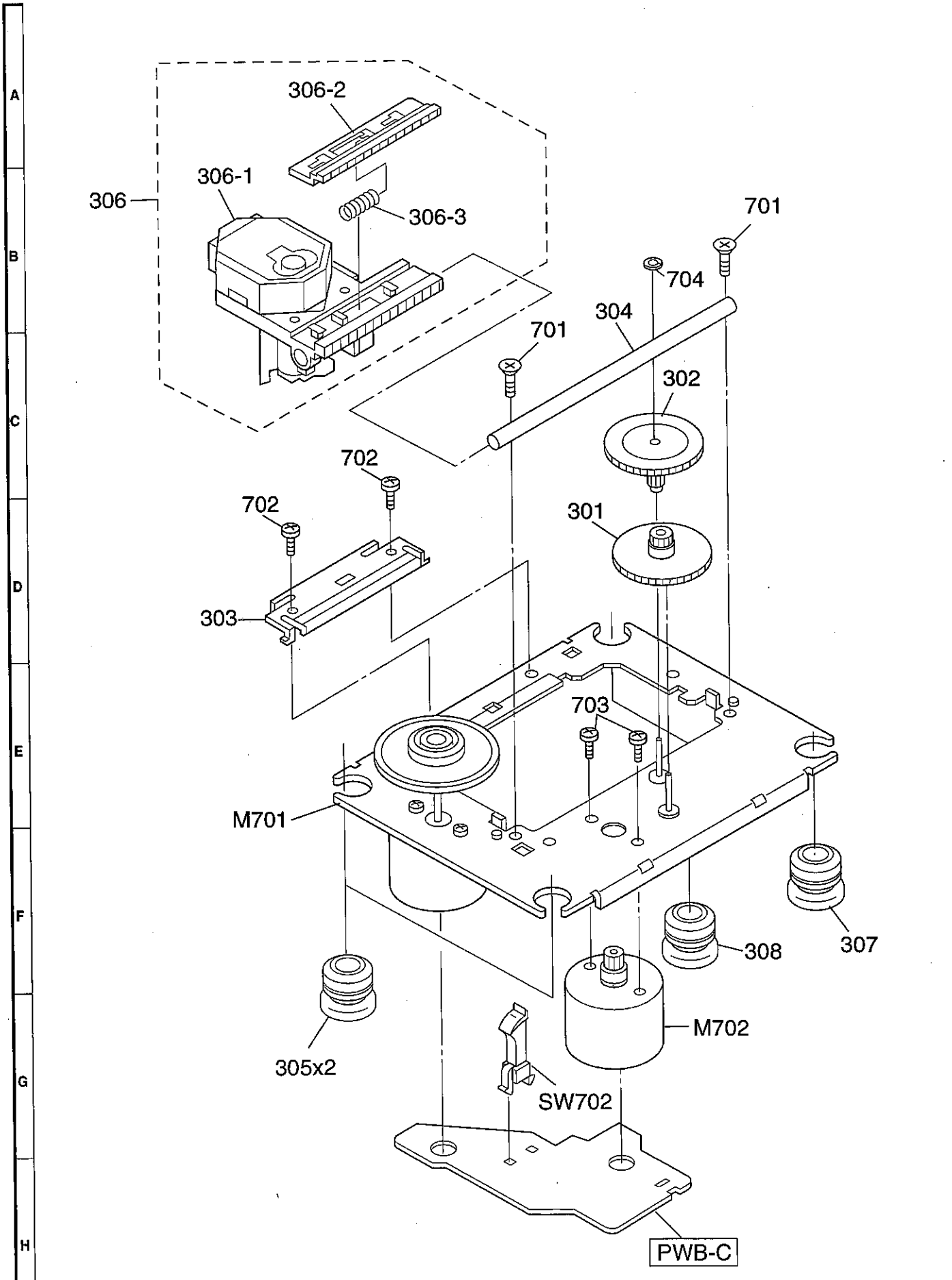


Figure 14 CD MECHANISM EXPLODED VIEW

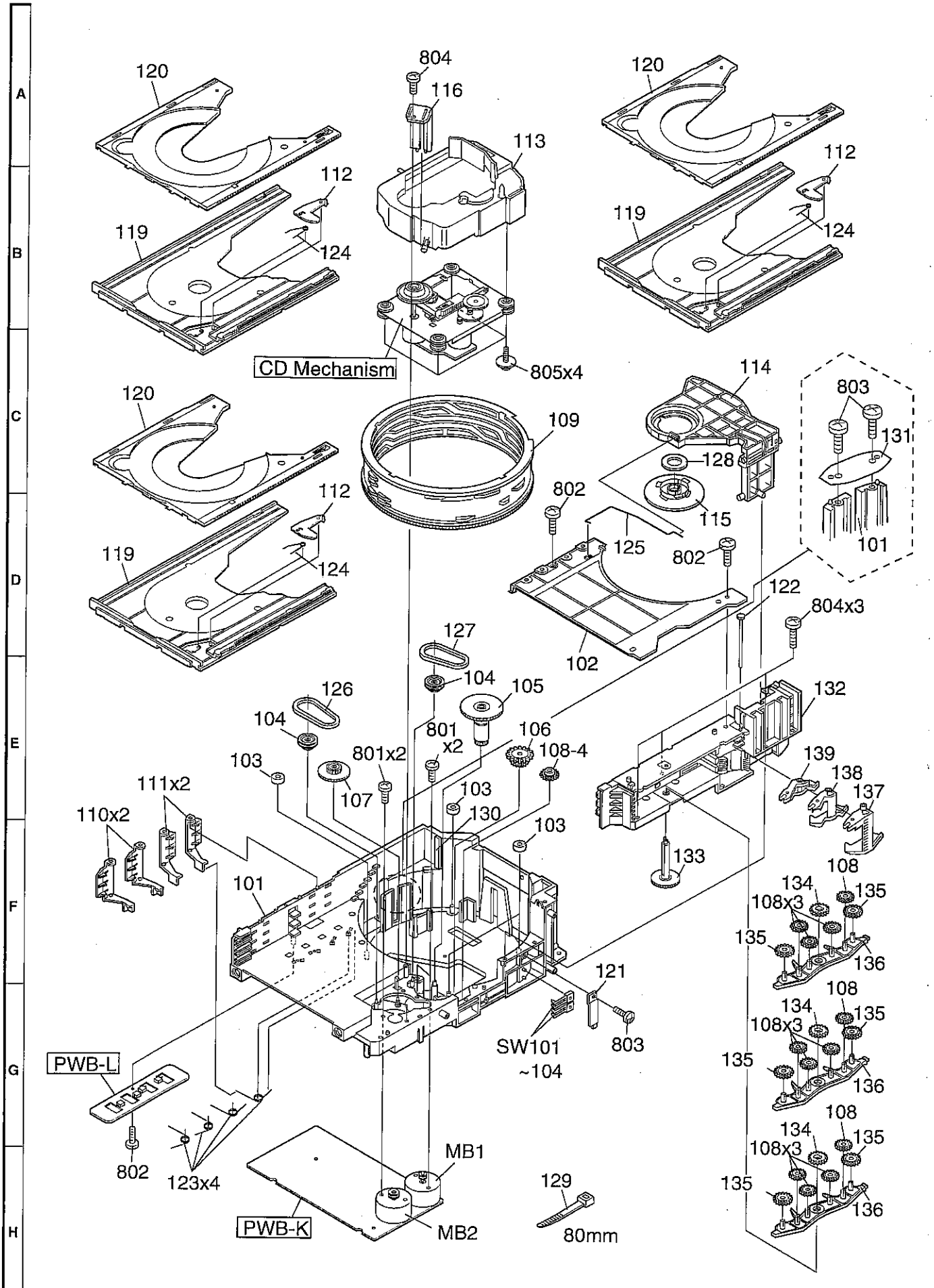


Figure 15 CHANGER MECHANISM EXPLODED VIEW

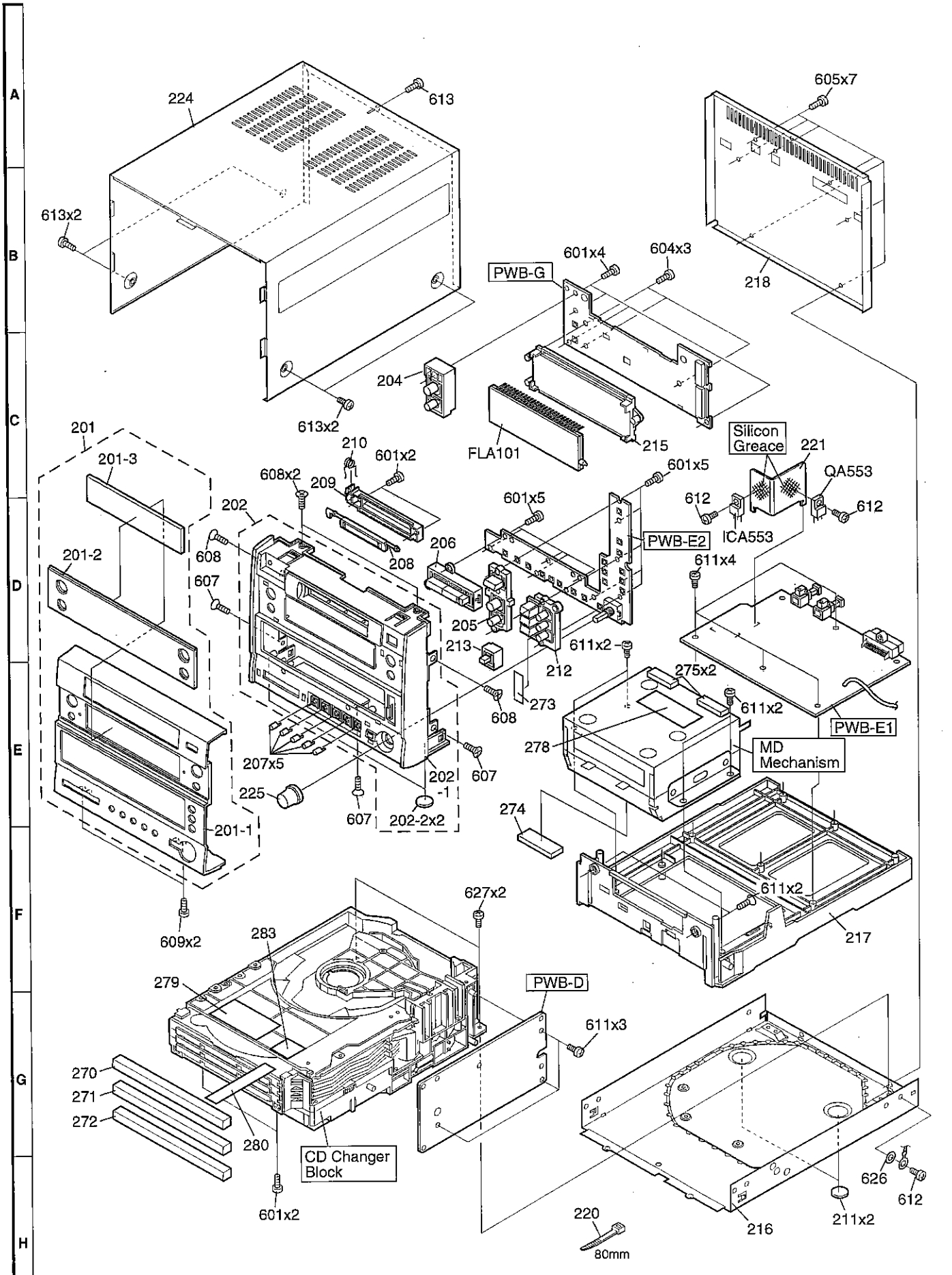


Figure 16 CABINET EXPLODED VIEW (1/2)

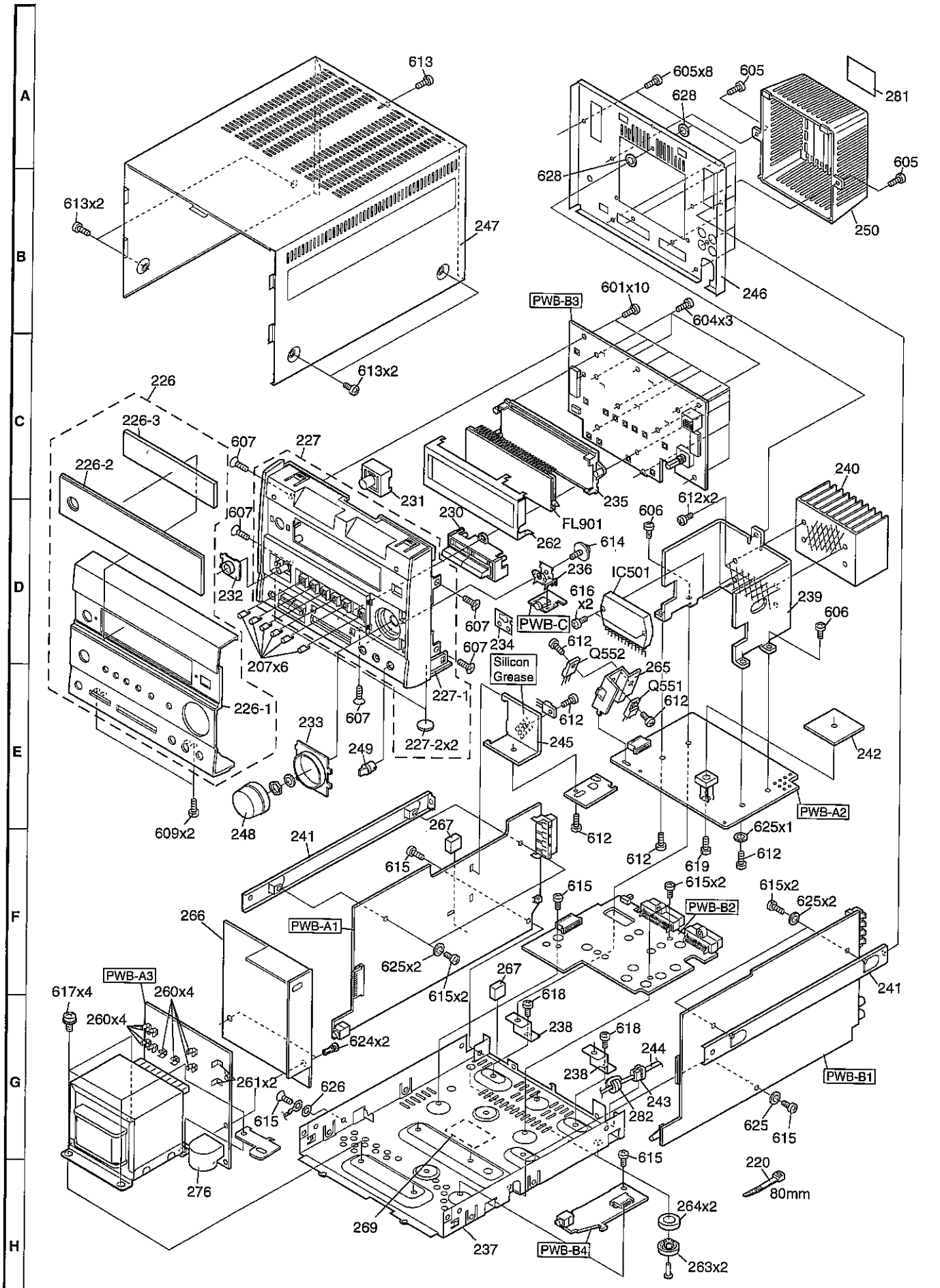


Figure 17 CABINET EXPLODED VIEW (2/2)

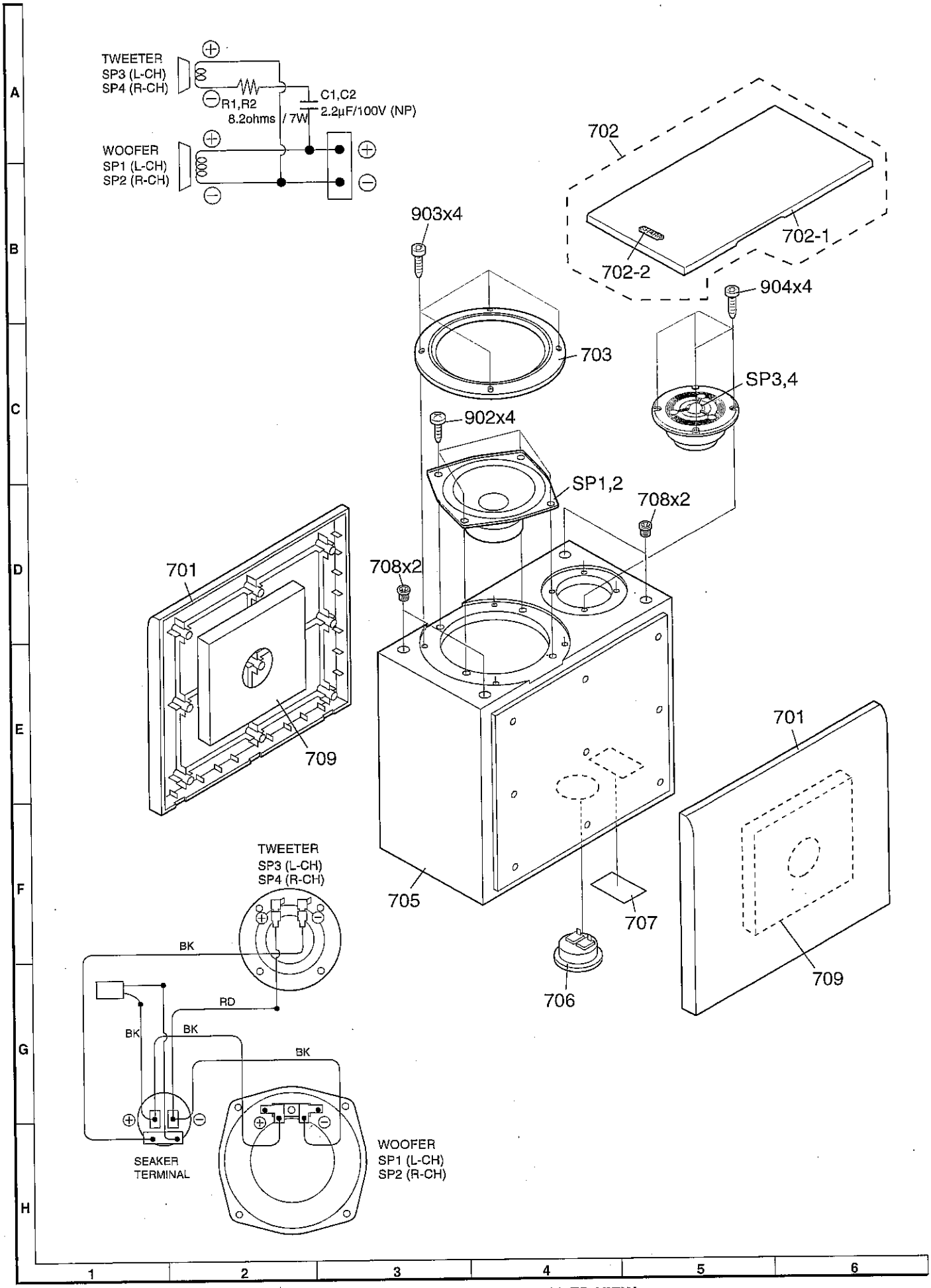


Figure 18 SPEAKER BOX EXPLODED VIEW

PACKING METHOD (FOR UK ONLY)

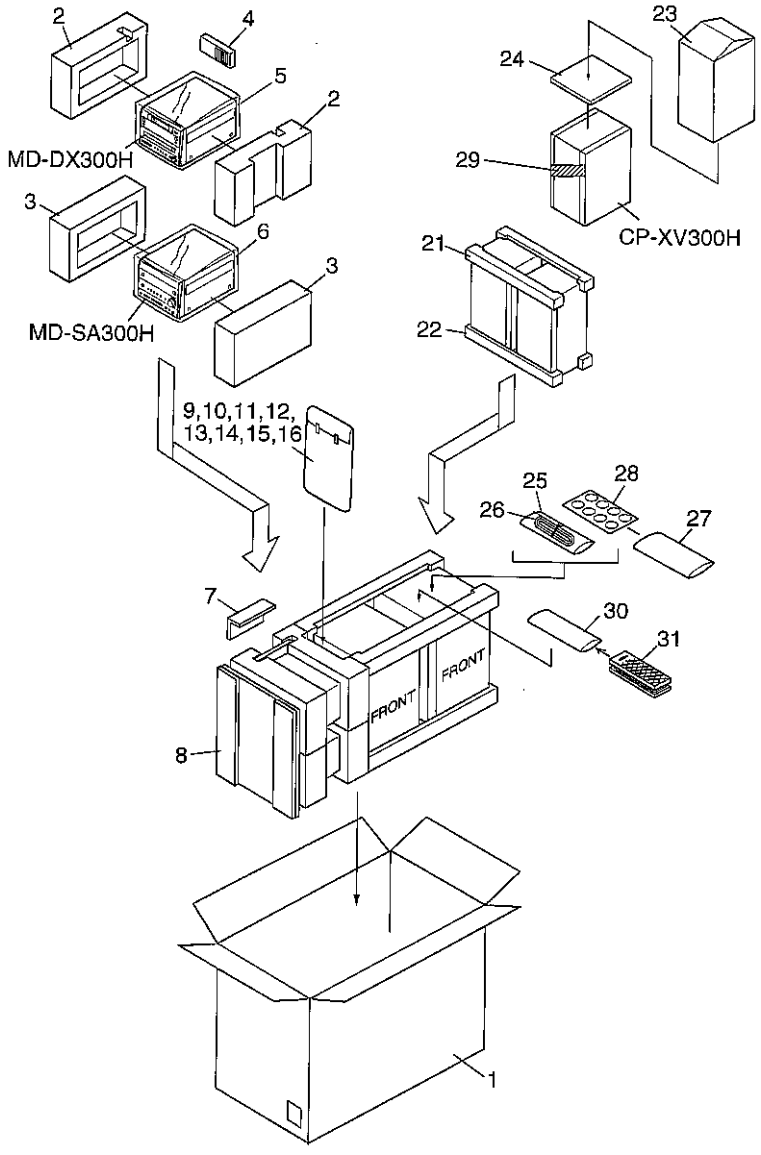
SETTING POSITION SWITCHES AND KNOBS	
INPUT LEVEL	MIN

MD-DX300H/MD-SA300H

1. Packing Case	SPAKC0476AWZZ
2. Packing Add., Left/Right [MD-DX300H]	SPAKA0115AWZZ
3. Packing Add., Left/Right [MD-SA300H]	SPAKA0119AWZZ
4. Remote Control	RRMCG0105AWSA
5. Polyethylene Bag, Unit [MD-DX300H]	SSAKH0021AWZZ
6. Polyethylene Bag, Unit [MD-SA300H]	SS AKH0019AWZZ
7. Pad, Top	SPAKA0028AWZZ
8. Pad, Side	SPAKX0027AWZZ
9. Polyethylene Bag, Accessories	92LBAG1460C1
10. AM Loop Antenna	QANTL0001AWZZ
11. Connector	QCNWG0018AWZZ
12. Registration Card	92LCARD1751A
13. Operation Manual	TINSE0153AWZZ
14. FM Antenna	92LF-ANT1535A
15. Recordable MD	UDSKM0001AFZZ
16. Caution Bill	TCAUH0034AWZZ

CP-XV300H

21. Packing Add., Speaker, Top	92L720TXV30000
22. Packing Add., Speaker, Bottom	92L720BXV30000
23. Polyethylene Bag, Speaker	92L71025000600
24. Sheet, Speaker	SPAKP0049AWZZ
25. Polyehtylene Bag, Speaker Cord	92LPPEB9S450
26. Speaker Cord	92L3191PXL1010
27,28. Polyethylene Bag, Built in Cushion	92L415CPXL1010
29. Label, Feature	TLABM0034AWZZ
30. Polyethylene Bag, Accessories Net Ass'y	92L70012002710
31. Accessories Net Ass'y	92L20100300H10



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